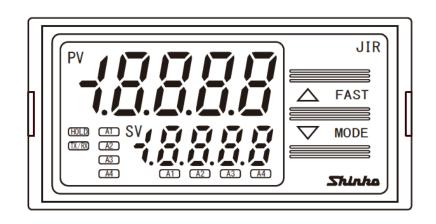
DIGITAL INDICATOR

Instruction Manual





Preface

Thank you for purchasing our Digital Indicator JIR-301-M. This manual contains instructions for the mounting, functions, operations and notes when operating the JIR-301-M. To prevent accidents arising from the misuse of this instrument, please ensure the operator receives this manual.

Notes

- This instrument should be used in accordance with the specifications described in the manual. If it is not used according to the specifications, it may malfunction or cause a fire.
- Be sure to follow the warnings, cautions and notices. If they are not observed, serious injury or malfunction may occur.
- The contents of this instruction manual are subject to change without notice.
- Care has been taken to ensure that the contents of this instruction manual are correct, but if there are any doubts, mistakes or questions, please inform our sales department.
- This instrument is designed to be installed through a control panel indoors. If it is not, measures must be taken to ensure that the operator cannot touch power terminals or other high voltage sections.
- Any unauthorized transfer or copying of this document, in part or in whole, is prohibited.
- Shinko Technos Co., Ltd. is not liable for any damage or secondary damage(s) incurred as a result of using this product, including any indirect damage.

Safety Precautions (Be sure to read these precautions before using our products.)

The safety precautions are classified into categories: "Warning" and "Caution". Depending on circumstances, procedures indicated by \triangle Caution may result in serious consequences, so be sure to follow the directions for usage.



Procedures which may lead to dangerous conditions and cause death or serious injury, if not carried out properly.



Procedures which may lead to dangerous conditions and cause superficial to medium injury or physical damage or may degrade or damage the product, if not carried out properly.

\land Warning

- To prevent an electrical shock or fire, only Shinko or other qualified service personnel may handle the inner assembly.
- To prevent an electrical shock, fire or damage to the instrument, parts replacement may only be undertaken by Shinko or other qualified service personnel.

- To ensure safe and correct use, thoroughly read and understand this manual before using this instrument.
- This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify correct usage after purpose-of-use consultation with our agency or main office. (Never use this instrument for medical purposes with which human lives are involved.)
- External protection devices such as protective equipment against excessive temperature rise, etc. must be installed, as malfunction of this product could result in serious damage to the system or injury to personnel. Proper periodic maintenance is also required.
- This instrument must be used under the conditions and environment described in this manual. Shinko Technos Co., Ltd. does not accept liability for any injury, loss of life or damage occurring due to the instrument being used under conditions not otherwise stated in this manual.

Warning on Model Label

▲ Caution

Failure to handle this instrument properly may result in minor or moderate injury or property damage due to fire, malfunction, malfunction, or electric shock. Please read this manual before using the product to ensure that you fully understand the product.

Caution with Respect to Export Trade Control Ordinance

To avoid this instrument from being used as a component in, or as being utilized in the manufacture of weapons of mass destruction (i.e. military applications, military equipment, etc.), please investigate the end users and the final use of this instrument.

In the case of resale, ensure that this instrument is not illegally exported.

Precautions for Use

1. Installation Precautions

Caution

This instrument is intended to be used under the following environmental conditions (IEC61010-1): Overvoltage category $\ II$, Pollution degree 2

Ensure the mounting location corresponds to the following conditions:

- A minimum of dust, and an absence of corrosive gases
- No flammable, explosive gases
- No mechanical vibrations or shocks
- No exposure to direct sunlight, an ambient temperature of 0 to 50°C (32 to 122°F) that does not change rapidly, and no icing
- An ambient non-condensing humidity of 35 to 85 %RH
- No large capacity electromagnetic switches or cables through which large current is flowing
- No water, oil or chemicals or where the vapors of these substances can come into direct contact with the unit
- Please note that the ambient temperature of this unit not the ambient temperature of the control panel – must not exceed 50°C (122°F) if mounted through the face of a control panel, otherwise the life of electronic components (especially electrolytic capacitors) may be shortened.

Note • Avoid setting this instrument directly on or near flammable material even though the case of this instrument is made of flame-resistant resin.

2. Wiring Precautions

▲ Caution

- Do not leave wire remnants in the instrument, as they could cause a fire or malfunction.
- The terminal block of this instrument is designed to be wired from the upper side. The lead wire must be inserted from the upper side of the terminal, and fastened with the terminal screw.
- Tighten the terminal screw using the specified torque. If excessive force is applied to the screw when tightening, the terminal screw or case may be damaged.
- Do not pull or bend the lead wire on the terminal side when wiring or after wiring, as it could cause malfunction.
- Use a thermocouple and compensating lead wire according to the sensor input specifications of this instrument.
- Use the 3-wire RTD according to the sensor input specifications of this instrument.
- This instrument does not have a built-in power switch, circuit breaker and fuse. It is necessary to install a-power switch, circuit breaker and fuse near the instrument. (Recommended fuse: Time-lag fuse, rated voltage 250 V AC, rated current 2 A)
- For a 24 V AC/DC power source, do not confuse polarity when using direct current (DC).
- When using a relay contact output type, externally use a relay according to the capacity of the load to protect the built-in relay contact.
- When wiring, keep input wires (thermocouple, RTD, etc.) away from AC power sources or load wires.
- Do not apply a commercial power source to the sensor which is connected to the input terminal nor allow the power source to come into contact with the sensor.

3. Operation and Maintenance Precautions

1 Caution

- Do not touch live terminals. This may cause electrical shock or problems in operation.
- Turn the power supply to the instrument OFF before retightening the terminal or cleaning. Working on or touching the terminal with the power switched ON may result in severe injury or death due to electrical shock.
- Use a soft, dry cloth when cleaning the instrument. (Alcohol based substances may tarnish or deface the unit.)
- As the display section is vulnerable, be careful not to put pressure on, scratch or strike it with a hard object.

4. Compliance with Safety Standards

1 Caution

- Always install the recommended fuse described in this manual externally.
- If the instrument is used in a manner not specified by the manufacturer, the protection provided by the instrument may be impaired.
- Use a device with reinforced insulation or double insulation for the external circuit connected to this product.
- When using this product as a UL certified product, use a power supply conforming to Class 2 or LIM for the external circuit connected to the product.

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Indication	-/	0	1	Πu	Ξ	Ч	տ	5	۲ -	8	3	Ľ	F	
Number, °C/°F	-1	0	1	2	3	4	5	6	7	8	9	°C	°F	
Indication	Я	П	Ь	E	d	Ε	F	5	Н	1	L.	F	L	ñ
Alphabet	ŀ	4	В	С	D	Е	F	G	Н	Ι	J	К	L	М
Indication	n	o	Ρ	9	<i>~</i>	5	ſ	Ш	В	ū	U -	Ч	111	
Alphabet	Ν	0	Ρ	Q	R	S	Т	U	V	W	Х	Y	Ζ	

Characters used in this manual (:: No character is indicated.)

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1. Model

1.1 Model

JIR-301-	M	□,		Series name: JIR-30)1-M (W96 x H48 >	< D110 mm)			
Input	М			Multi-range (*1)					
Devicer event				100 to 240 V AC					
Power supply	у	1		24 V AC/DC (*2)					
			A4	Alarm 4 output (*3)	Alarm 4 output (*3)				
			C5	Serial communication	on (RS-485)(*4)				
			P24	Insulated power out	put 24±3 V DC (*5	5), (*6)			
			P5	Insulated power out	put 5±0.5 V DC (*	5), (*6)			
			DSB	Power for 2-wire tran	nsmitter (Current lo	oop supply)(*6), (*7)			
			TA2 (4-20)		Direct current	4 to 20 mA DC			
			TA2 (0-20)	_	output	0 to 20 mA DC			
			TV2 (0-1)	Transmission		0 to 1 V DC			
			TV2 (0-5)	output 2 (*3)	DC voltage output	0 to 5 V DC			
Option			TV2 (1-5)	4		1 to 5 V DC			
			TV2 (0-10)			0 to 10 V DC			
			TA (0-20)		Direct current	0 to 20 mA DC			
				User specified	output				
			TV (0-1)	Transmission		0 to 1 V DC			
			TV (0-5)	output (*8)	DC voltage	0 to 5 V DC			
			TV (1-5)		output	1 to 5 V DC			
			TV (0-10)			0 to 10 V DC			
			BK	Color: Black					
			ТС	Terminal cover					

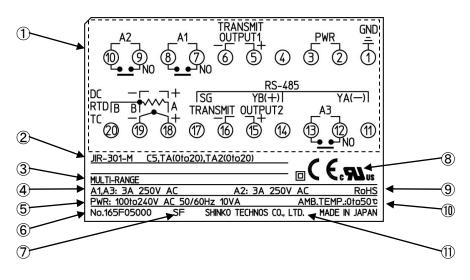
Alarms A1, A2 and A3 outputs are standard features. Alarm types (4 types for A1, A2, and 5 types for A3 as well as No alarm action) and Energized/De-energized can be selected.

- (*1) Thermocouple (10 types), RTD (2 types), Direct current (2 types) and DC voltage (4 types) can be selected by keypad.
- (*2) Power supply voltage 100 to 240 V AC is standard. When ordering 24 V AC/DC, enter '1' after the input code.
- (*3) Alarm 4 output (A4 option) and Transmission output 2 (T² option) cannot be used together.
- (*4) If Serial communication (RS-485)[C5 option] is ordered, the Event input function will not be available.
- (*5) Insulated power output (P24 option) and Insulated power output (P5 option) cannot be used together. If Insulated power output (P24 option) or Insulated power output (P5 option) is ordered, A2 output cannot be used.
- (*6) Insulated power output (P24 or P5 option) cannot be used with the Power for 2-wire transmitter (DSB option).
- (*7) If Power for 2-wire transmitter (DSB option) is ordered, only 4 to 20 mA DC input (Built-in 50 Ω shunt resistor) can be used.
- (*8) TA (4-20 mA DC) is a standard feature.

1.2 How to Read the Model Label

Model labels are attached to the case and the inner assembly.

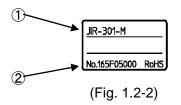
Top of the case



(Fig.	1	.2-	1)
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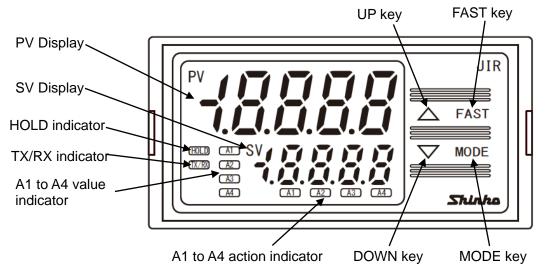
No.	Description	Example
1	Terminal arrangement	Terminal arrangement of JIR-301-M
		C5, TA(0 to 20), TA2(0 to 20)
2	Model	JIR-301-M C5, TA(0 to 20), TA2(0 to 20)
3	Input	MULTI-RANGE (Multi-range input)
4	A1, A2, A3, A4, P24, P5 outputs	A1, A3: 3 A 250 V AC
		A2: 3 A 250 V AC
5	Power supply voltage	100 to 240 V AC 50/60 Hz,
	Power consumption	10 VA
6	Serial number	No.165F05000
$\overline{\mathcal{O}}$	Manufacturing factory ID	SF (Fukuoka factory)
8	Compliant standards	CE, UL
9	RoHS	RoHS directive compliant
10	Ambient temperature	0 to 50℃
1	Manufacturer	SHINKO TECHNOS CO., LTD.

Inner assembly



No.	Description	Example
1	Model	JIR-301-M
2	Serial number	No. 165F05000

2. Name and Functions



(Fig. 2-1)

Display, Indicator

Name	Description
PV Display	Indicates PV (process variable) or characters in the setting mode with the red LED.
SV Display	Indicates A1/A2/A3/A4 value or the set value in the setting mode with the green LED.
HOLD indicator	When PV is held (HOLD, Peak HOLD, Bottom HOLD), the yellow LED is lit.
TX/RX indicator	The yellow LED is lit during Serial communication (C5 option) TX (transmitting) output.
A1 value indicator	When A1 value is indicated on the SV Display, the green LED is lit.
A2 value indicator	When A2 value is indicated on the SV Display, the green LED is lit.
A3 value indicator	When A3 value is indicated on the SV Display, the green LED is lit.
A4 value indicator	When A4 value is indicated on the SV Display, the green LED is lit. (A4 option)
A1 action indicator	When A1 output is ON, the red LED is lit. While A1 output is held (maintained), the red LED flashes.
A2 action indicator	When A2 output is ON, the red LED is lit. While A2 output is held (maintained), the red LED flashes.
A3 action indicator	When A3 output is ON, the red LED is lit. While A3 output is held (maintained), the red LED flashes.
A4 action indicator	When A4 output is ON, the red LED is lit. While A4 output is held (maintained), the red LED flashes. (A4 option)

Key

Name	Description
UP key	Increases the numeric value.
	If High/Low limit range alarm is selected in [A4 type], and if the SV Display
	indicates A4 value, the SV Display indicates A4 high limit value while the UP key is
	pressed.
FAST key	Makes the set value change faster while pressing the UP/DOWN key and FAST
	key together.
DOWN key	Decreases the numeric value.
MODE key	Selects the setting mode, and registers the set value.

1 Notice

When setting the specifications and functions of this instrument, connect mains power cable to terminals 2 and 3 first, then set them referring to "5. Setup" before performing "3. Mounting to the Control Panel" and "4. Wiring".

3. Mounting to the Control Panel

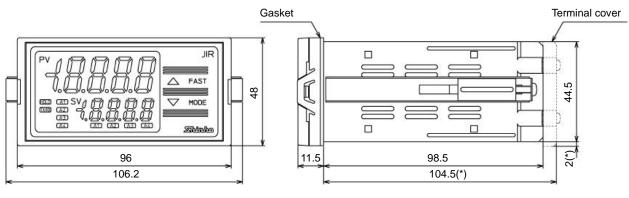
3.1 Site Selection

This instrument is intended to be used under the following environmental conditions (IEC61010-1): Overvoltage category II, Pollution degree 2

Ensure the mounting location corresponds to the following conditions:

- · A minimum of dust, and an absence of corrosive gases
- No flammable, explosive gases
- · No mechanical vibrations or shocks
- No exposure to direct sunlight, an ambient temperature of 0 to 50°C (32 to 122°F) that does not change rapidly
- An ambient non-condensing humidity of 35 to 85 %RH
- No large capacity electromagnetic switches or cables through which large current is flowing
- No water, oil or chemicals or where the vapors of these substances can come into direct contact with the unit
- Please note that the ambient temperature of this unit not the ambient temperature of the control panel must not exceed 50°C (122°F) if mounted through the face of a control panel, otherwise the life of electronic components (especially electrolytic capacitors) may be shortened.

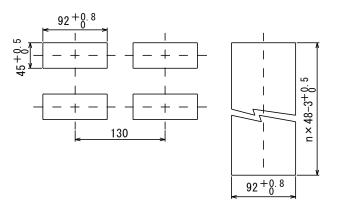
3.2 External Dimensions (Scale: mm)



(*) When terminal cover is used

(Fig. 3.2-1)

3.3 Panel Cutout (Scale: mm)



Vertical close mounting n: Number of mounted units

Caution: If vertical close mounting is used for the instrument, IP66 (Drip-proof/ Dust-proof) may be compromised, and all warranties will be invalidated.

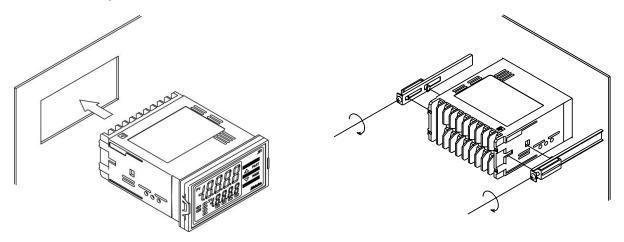


3.4 Mounting the Unit

Mount the instrument vertically to the flat, rigid panel to ensure it adheres to the Drip-proof/Dust-proof specification (IP66).

Mountable panel thickness: 1 to 8 mm

- (1) Insert the instrument from the front side of the control panel.
- (2) Attach the mounting brackets by the slots on the right and left sides of the case, and secure the instrument in place with the screws.





1 Caution

As the case of the JIR-301-M is made of resin, do not use excessive force while tightening screws, or the mounting brackets or case could be damaged.

0.12 N•m of torque is recommended.

4. Wiring

Warning

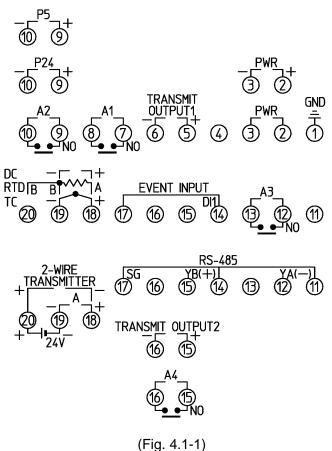
Turn the power supply to the instrument off before wiring or checking.

Working on or touching the terminal with the power switched on may result in severe injury or death due to electrical shock.

1 Caution

- Do not leave wire remnants in the instrument, as they could cause a fire or malfunction.
- The terminal block of this instrument is designed to be wired from the upper side. The lead wire must be inserted from the upper side of the terminal, and fastened with the terminal screw.
- Tighten the terminal screw using the specified torque. If excessive force is applied to the screw when tightening, the terminal screw or case may be damaged.
- Do not pull or bend the lead wire on the terminal side when wiring or after wiring, as it could cause malfunction.
- Use a thermocouple and compensating lead wire according to the sensor input specifications of this instrument.
- Use the 3-wire RTD according to the sensor input specifications of this instrument.
- This instrument does not have a built-in power switch, circuit breaker and fuse. It is necessary to install a-power switch, circuit breaker and fuse near the instrument.
- (Recommended fuse: Time-lag fuse, rated voltage 250 V AC, rated current 2 A)
- For a 24 V AC/DC power source, do not confuse polarity when using direct current (DC).
- When using a relay contact output type, externally use a relay according to the capacity of the load to protect the built-in relay contact.
- When wiring, keep input wires (thermocouple, RTD, etc.) away from AC power sources or load wires.
- Do not apply a commercial power source to the sensor which is connected to the input terminal nor allow the power source to come into contact with the sensor.

4.1 Terminal Arrangement



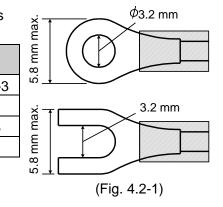
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Terminal Name	Description
GND	Ground terminal
PWR	Power supply
TRANSMIT OUTPUT1	Transmission output 1
A1	A1 output
A2	A2 output
A3	A3 output
EVENT INPUT	Event input
ТС	Thermocouple input
RTD	RTD input
DC	Direct current input, DC voltage input
	For Direct current input (externally mounted 50 Ω shunt resistor),
	connect a 50 Ω shunt resistor (sold separately) between input
	terminals.
P24	Insulated power output 24 V (P24 option)
P5	Insulated power output 5 V (P5 option)
RS-485	Serial communication (RS-485) (C5 option)
TRANSMIT OUTPUT2	Transmission output 2 (T \Box 2 option)
A4	A4 output (A4 option)
А	Direct current input (DSB option)
24V	Power for 2-wire transmitter (DSB option)

4.2 Lead Wire Solderless Terminal

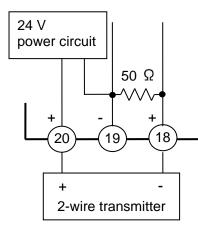
Use a solderless terminal with an insulation sleeve in which an M3 screw fits as shown below. 0.63 N•m of torque is recommended.

Solderless Terminal	Manufacturer	Model
Viture	NICHIFU TERMINAL INDUSTRIES CO., LTD.	TMEX1.25Y-3
Y-type	J.S.T.MFG.CO.,LTD.	VD1.25-B3A
Ring-type	NICHIFU TERMINAL INDUSTRIES CO., LTD.	TMEX1.25-3
	J.S.T.MFG.CO.,LTD.	V1.25-3



4.3 When Using as a Current Loop Supply

Refer to the following wiring example.



(Fig. 4.3-1)

5. Setup

After power is turned ON, the input characters and temperature unit will be indicated on the PV Display, and the input range high limit (for thermocouple, RTD input) or scaling high limit (for Direct current, DC voltage input) will be indicated on the SV Display for approx. 3 sec. (Table 5-1)

During this time, all outputs and LED indicators are in an OFF status. Operation will then start, indicating the PV (process variable) on the PV Display, and A1, A2, A3 or A4 value on the SV Display.

Sensor Input	PV Display (℃)	SV Display	PV Display (°F)	SV Display
К	E	סרבו	E	2500
	E	чада	E F	7500
J	JE	1000	JF	1800
R	rE	1760	~F	3200
S	4 <u> </u>	1760	<u> </u>	3200
В	Ь ШС	1820	ЬШF	3300
E	E	800	E	1500
Т	ГШ.Д	чааа	Γ	7500
Ν	- <u>Γ</u>	1300	~F	2300
PL-∏	PL2C	1390	PL2F	2500
C (W/Re5-26)	c E	23 15	c F	4200
Pt100	PF <u>f</u>	8500	PT F	10000
JPt100	JPF.E	5000	JPT_F	9000
Pt100	ΡΓΞΕ	850	PTEF	1500
JPt100	JPEE	500	JPEF	900
4-20 mA DC (*1)(*2)	420A			
0-20 mA DC (*1)(*2)	020R			
0-1 V DC (*1)	D IB			
0-5 V DC (*1)	0 58	Scaling high		
1-5 V DC (*1)	<i>I</i> ⊡5 <i>8</i>	limit value		
0-10 V DC (*1)	0 108			
4-20 mA DC (*1)(*3)	4201			
0-20 mA DC (*1)(*3)	0201			

(Table	5-1)
lanc	5 1)

(*1) Input range and decimal point place can be selected.

(*2) Connect a 50 Ω shunt resistor (sold separately) between input terminals.

(*3) Has a built-in 50 Ω shunt resistor.

If Power for 2-wire transmitter (DSB option) is ordered, only 4 to 20 mA DC input (Built-in 50 Ω shunt resistor) can be used.

5.1 Registering the Selected Item or Value

• To increase or decrease the numeric value, use the UP or DOWN key. To make the set value change faster, press the UP/DOWN key and FAST key together . Select an setting item with the UP or DOWN key.

• Register the setting item or value using the MODE key.

5.2 Alarm Setting Mode

If the MODE key is pressed in PV/SV display mode, the unit will move to Alarm setting mode.

Character	Setting Item, Function, Setting Range		
Factory Default			
	A1 value		
	Sets A1 output action point.		
	Not available if No alarm action is selected in [A1 type]		
	Setting range: Refer to (Table 5.2-1).		
82	A2 value		
	Sets A2 output action point.		
	 Not available if No alarm action is selected in [A2 type] 		
	Not available if Insulated power output (P24 option or P5 option) is ordered.		
	Setting range: Refer to (Table 5.2-1).		
RB	A3 value		
	Sets A3 output action point.		
	• Not available if No alarm action or High/Low limit range alarm is selected in [A3 type]		
	Setting range: Refer to (Table 5.2-1).		
84	A4 value		
	Sets A4 output action point.		
	Available when Alarm 4 output (A4 option) is ordered.		
	Not available if No alarm action is selected in [A4 type]		
	If High/Low limit range alarm is selected in [A4 type], A4 value matches A4 low limit		
	alarm value.		
	Setting range: Refer to (Table 5.2-1).		
ЯЧН	A4 high limit value		
<u> </u>	Sets A4 output high limit action point.		
	Available when Alarm 4 output (A4 option) is ordered, or when High/Low limit range		
	alarm is selected in [A4 type].		
	Setting range: Refer to (Table 5.2-1).		

(Table 5.2-1)

Alarm Type	Setting Range
High limit alarm	Input range low limit to input range high limit (*1)
Low limit alarm	Input range low limit to input range high limit (*1)
High limit with standby alarm	Input range low limit to input range high limit (*1)
Low limit with standby alarm	Input range low limit to input range high limit (*1)
High/Low limit range alarm (A4)	A4 low limit value: Input range low limit (*2) to A4 high limit
	A4 high limit value: A4 low limit to input range high limit (*3)

• The placement of the decimal point follows the selection or input range.

(*1) For direct current and DC voltage input: Setting range is [Scaling low limit to Scaling high limit].

(*2) For direct current and DC voltage input: Will be substituted by the Scaling low limit.

(*3) For direct current and DC voltage input: Will be substituted by the Scaling high limit.

5.3 Auxiliary Function Setting Mode 1

To enter Auxiliary Function Setting Mode 1, press and hold the **DOWN key** and **MODE key** (in that order) together for approx. 3 seconds in PV/SV Display Mode.

Character Factory Default	Setting Item, Function, Setting Range			
	Set value lock			
	Locks the set values to prevent setting errors.			
	The setting item to be locked depends on the selection.			
	 (Unlock): All set values can be changed. 			
	L_{DC} / (Lock 1): None of the set values can be changed.			
	$L_{DE} = \frac{1}{2}$ (Lock 2): Only Alarm setting mode (p.14) can be changed.			
	$L \Box c \exists$ (Lock 3): All set values – except the input type (p.18) – can be changed.			
	However, changed values revert to their previous value after			
	power is turned off because they are not saved in the			
	non-volatile IC memory. Do not change any setting items in			
	Auxiliary function setting mode 2 (pp.18 - 24). If any item is			
	changed in Auxiliary function setting mode 2, it will affect the			
	alarm value (A1 value - A4 value).			
50E	Sensor correction coefficient			
1000	Sets sensor correction coefficient.			
	Sets slope of input value from a sensor.			
	PV after sensor correction= Current PV x (Sensor correction coefficient) +			
	(Sensor correction value)			
	Refer to 'Input Value Correction' (p. 17).			
	• Setting range: -10.000 to 10.000			
50 C	Sensor correction			
00	This corrects the input value from the sensor.			
	When a sensor cannot be set at the exact location where measurement is desired, the			
	sensor-measured temperature may deviate from the temperature in the measurement			
	location. When using multiple indicators, sometimes the measured temperatures do not match due to differences in sensor accuracy or installation site.			
	In such a case, the temperature in the installation site can be adjusted to the desired			
	temperature by adjusting the sensor input value.			
	PV after sensor correction= Current PV x (Sensor correction coefficient) +			
	(Sensor correction value)			
	Refer to 'Input Value Correction' (p.17).			
	• Setting range: -1000.0 to 1000.0℃ (°F)			
	Direct current, DC voltage input: -10000 to 10000 (The placement of the decimal			
	point follows the selection.)			
cñ4L	Communication protocol			
noñL	Selects communication protocol.			
	Available only when Serial communication (C5 option) is ordered.			
	・ ヮヮヮ゙゚」: Shinko protocol			
	유교령부 : MODBUS ASCII mode			
	ລົມຢະ : MODBUS RTU mode			
	とっこと: Shinko protocol (Block Read/Write available)			
	とうごろ: MODBUS ASCII mode (Block Read/Write available)			
	Lindr: MODBUS RTU mode (Block Read/Write available)			

Character	Setting Item, Function, Setting Range		
Factory Default			
	 Instrument number Sets the individual instrument number of this unit. (The instrument numbers should be set one by one when multiple instruments are connected in Serial 		
	communication.)		
	 Available only when the Serial communication (C5 option) is ordered Setting range: 0 to 95 		
cñhP	Communication speed		
98	 Selects a communication speed equal to that of the host computer. 		
	 Available only when the Serial communication (C5 option) is ordered. 		
	•		
	<i>닉님</i> : 4800 bps		
	<u>95</u> :9600 bps		
	<i>[] [∃]2</i> : 19200 bps		
	<i>금용식</i> : 38400 bps		
cñPr	Parity		
EBEn	Selects the parity.		
	• Available when Serial communication (C5 option) is ordered, or when MODBUS ASCII mode or MODBUS RTU mode is selected in [Communication protocol].		
	・ ヮヮヮE : No parity		
	EBEn : Even		
	ਰਰਰ⊡ : Odd		
ะกับโ	Stop bit		
	Selects the stop bit.		
	Available when Serial communication (C5 option) is ordered, or when MODBUS		
	ASCII mode or MODBUS RTU mode is selected in [Communication protocol].		
	• / : 1 bit		
	E': 2 bits		

Input Value Correction

Input value can be corrected in [Sensor correction coefficient] and [Sensor correction] in Auxiliary Function Setting Mode 1.

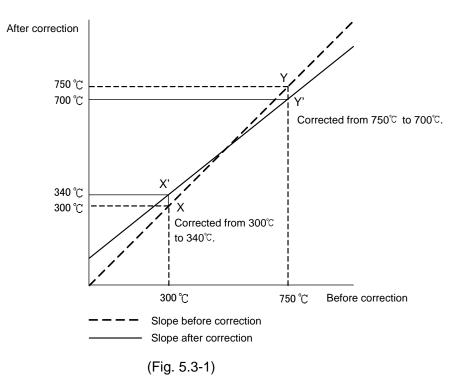
In [Sensor correction coefficient], set the slope of temperature change.

In [Sensor correction], set the difference between temperatures before correction and after correction.

PV after input correction is expressed by the following formula.

PV after input correction = Current PV x Sensor correction coefficient + (Sensor correction value)

The following shows an example of input value correction using 'Sensor correction coefficient' and 'Sensor correction value'.



- (1) Select any 2 points of PV to be corrected, and determine the PV after correction.
 PV before correction: 300°C → PV after correction: 340°C
 PV before correction: 750°C → PV after correction: 700°C
- (2) Calculate Sensor correction coefficient from Step (1). (Y' - X') / (Y - X) = (700 - 340) / (750 - 300) = 0.8
- (3) Enter a PV value of 300°C using an mV generator or dial resistor.
- (4) Set Step (2) value as a Sensor correction coefficient.
- (5) Read the PV. 240° C will be indicated.
- (6) Calculate the sensor correction value.
 Calculate the difference between 'PV after correction' and Step (5) PV.
 340°C 240°C = 100°C
- (7) Set Step (6) value as a Sensor correction value.
- (8) Enter an electromotive force or resistance value equivalent to 750°C using an mV generator or dial resistor.
- (9) Read the PV, and confirm that $700^{\circ}C$ is indicated.

5.4 Auxiliary Function Setting Mode 2

To enter Auxiliary Function Setting Mode 2, press and hold the UP, DOWN and MODE keys (in that order	.)
together for approx. 3 seconds in PV/SV Display Mode.	

Character Factory Default	Setting Item, Function, Setting Range			
4804	Input type			
E	• The input type can be selected from thermocouple (10 types), RTD (2 types),			
	Direct current (2 types) and DC voltage (4 types), and the unit °C/°F can be			
	selected as v			
	Not available	when Power for 2-wire tran	nsmitter (DSB	option) is ordered.
	When chang	ing the input from DC voltage	ge to other inp	outs, remove the sensor
	connected to	this instrument first, then c	hange the inp	ut. If the input is changed
	with the sens	or connected, the input circ	uit may break	ζ.
	(Table 5.4-1)			
	Character	Input Range	Character	Input Range
	E	K -200 to 1370°C	EF	K -320 to 2500°F
	E	K -200.0 to 400.0℃	E F	K -200.0 to 750.0°F
	JE	J -200 to 1000℃	L F	J -320 to 1800°F
	Γ	R 0 to 1760℃	r F	R 0 to 3200°F
	5 <u>5</u>	S 0 to 1760℃	ЧF	S 0 to 3200°F
	5 <u>5</u>	B 0 to 1820℃	6 F	B 0 to 3300°F
	ΕΞΕ	E -200 to 800℃	E	E -320 to 1500°F
	<u>Г</u>	T -200.0 to 400.0℃	Γ	T -200.0 to 750.0°F
	<u>_</u> Σ	N -200 to 1300°C	n F	N -320 to 2300°F
	PLZC	PL-	PL 2F	PL-Ⅱ 0 to 2500°F
	σΞΕ	C(W/Re5-26) 0 to 2315℃	c F	C(W/Re5-26) 0 to 4200°F
	PF _	Pt100 -200.0 to 850.0℃	PF F	Pt100 -200.0 to 1000.0°F
		JPt100 -200.0 to 500.0℃	JPFF	JPt100 -200.0 to 900.0°F
				Pt100 -300 to 1500°F
	JPFE			JPt100 -300 to 900°F
	4208	4 to 20 mA DC -2000 to 10000		
		(Externally mounted 50 Ω		or)
	0208	0 to 20 mA DC -2000 to		
		(Externally mounted 50 Ω		or)
	0 18	0 to 1 V DC -2000 to 10		
	0058	0 to 5 V DC -2000 to 10		
	I58	1 to 5 V DC -2000 to 100		
	0 108	0 to 10 V DC -2000 to 10		
	4201		,	n 50 Ω shunt resistor)
	0201	0 to 20 mA DC -2000 to	10000 (Built-i	n 50 Ω shunt resistor)
4 <i>ГLH</i>	Scaling high	limit		
10000	-	high limit value.		
		en direct current or DC volt	•	
	Setting range	: Scaling low limit to Input ra		•
, <u>, , , , , , , , , , , , , , , , , , </u>	Cooling Law 1	decimal point follows the	selection or in	put range.)
5511 5000	Scaling low li			
-2000	•	low limit value.	ana innut in -	placted in [Input type]
		en direct current or DC volt : Input range low limit to Sca	• ·	
		decimal point follows the		· ·
				put lange.

Character Factory Default	Setting Item, Function, Setting Range		
dP	Decimal point place		
	Selects decimal point place.		
·	Available when direct current or DC voltage input is selected in [Input type].		
	• \square : No decimal point		
	<u> </u>		
	DD : 2 digits after decimal point		
	<u> []]</u> []] : 3 digits after decimal point		
FILF	PV filter time constant		
00	Sets PV filter time constant.		
	If the value is set too large, it affects alarm action due to the delay of response.		
	Setting range: 0.0 to 10.0 sec		
RL IF	A1 type		
	Selects an A1 type. See Section 7.1 (p.27).		
	 If A1 type is changed, A1 value will default to 0 (0.0). 		
	 : No alarm action 		
	Here i High limit alarm		
	L Low limit alarm		
	$H \square \overline{\mu}$: High limit with standby alarm		
	L Low limit with standby alarm		
AL2F	A2 type		
	Selects an A2 type. See Section 7.1 (p.27).		
	Not available if Insulated power output (P24 option or P5 option) is ordered.		
	• If A2 type is changed, A2 value will default to 0 (0.0).		
	• : No alarm action		
	Here : High limit alarm		
	\mathcal{F} : High limit with standby alarm		
	$L \square L$: Low limit with standby alarm		
RLBF	A3 type		
	Selects an A3 type. See Section 7.1 (p.27).		
	• If A3 type is changed, A3 value will default to 0 (0.0).		
	• $$: No alarm action		
	Here is the second seco		
	L Low limit alarm		
	$H \square \tilde{\omega}$: High limit with standby alarm		
	L . Low limit with standby alarm		
	i High/Low limit range alarm [See Section 7.2 (p.28).]		

Character	Setting Item, Function, Setting Range			
Factory Default	A4 type			
RL HF	Selects an A4 type. See Section 7.1 (p.27).			
	Available when Alarm 4 output (A4 option) is ordered.			
	 If A4 type is changed, A4 value will default to 0 (0.0). : No alarm action 			
	High limit alarm			
	$H \square \tilde{\omega}$: High limit with standby alarm			
	$L \square \tilde{\mu}$: Low limit with standby alarm			
	\vec{L} = High/Low limit range alarm [See Section 7.3 (p.28).]			
R ILA	A1 Energized/De-energized			
noñL	Selects A1 Energized/De-energized.			
	Not available if No alarm action is selected in [A1 type].			
	• When [A1 Energized] is selected, A1 output (terminals 7, 8) is conducted (ON)			
	while A1 action indicator is lit.			
	A1 output is not conducted (OFF) while A1 action indicator is unlit.			
	When [A1 De-energized] is selected, A1 output (terminals 7, 8) is not conducted			
	(OFF) while A1 action indicator is lit.			
	A1 output is conducted (ON) while A1 action indicator is unlit.			
	At output will be substituted by A2, A2 or A4 subsut			
	A1 output will be substituted by A2, A3 or A4 output. A1 output terminals will be substituted by A2, A3 or A4 output terminals as follows.			
	A2 output terminals: 9, 10			
	A3 output terminals: 12, 13			
	A3 output terminals: 12, 13 A4 output terminals: 15, 16			
	High limit alarm (Energized) High limit alarm (De-energized)			
	A1 hysteresis A1 hysteresis			
	ON ON			
	OFF OFF			
	A1 value A1 value			
	(Fig. 5.4-1) (Fig. 5.4-2)			
	• nont: Energized			
	<u>⊢ĘႾ</u> ∽: De-energized			
RZLA	A2 Energized/De-energized			
noñL	Selects A2 Energized/De-energized.			
	Not available if No alarm action is selected in [A2 type].			
	Not available if Insulated power output (P24 option or P5 option) is ordered.			
	• nonit : Energized			
- 100	r 돈님님: De-energized			
RBLA	A3 Energized/De-energized			
noñL	 Selects A3 Energized/De-energized. Not available if No alarm action or High/Low limit range alarm is selected 			
	in [A3 type].			
	• npnL : Energized			
	- E H- : De-energized			
L				

Character Factory Default	Setting Item, Function, Setting Range			
ЯЧЕЛ	A4 Energized/De-energized			
noñL	Selects A4 Energized/De-energized.			
	Available only when Alarm 4 output (A4 option) is ordered.			
	Not available if No alarm action is selected in [A4 type].			
	• הַבָּה' : Energized			
	ー <i>E H</i> ト : De-energized			
8 IHY	A1 hysteresis			
III (0	Sets A1 hysteresis.			
	Not available if No alarm action is selected in [A1 type].			
	• Setting range: 0.1 to 100.0°C (°F)			
	Direct current, DC voltage input: 1 to 1000 (The placement of the decimal point follows the selection.)			
8283	A2 hysteresis			
Ш (О	Sets A2 hysteresis.			
	Not available if No alarm action is selected in [A2 type].			
	Not available if Insulated power output (P24 option or P5 option) is ordered.			
	• Setting range: 0.1 to 100.0°C (°F)			
	Direct current, DC voltage input: 1 to 1000 (The placement of the decimal point follows the selection.)			
ЯЗНУ	A3 hysteresis			
III (D	Sets A3 hysteresis.			
	Not available if No alarm action or High/Low limit range alarm is selected			
	in [A3 type].			
	• Setting range: 0.1 to 100.0°C (°F)			
	Direct current, DC voltage input: 1 to 1000 (The placement of the decimal point follows the selection.)			
ЯЧНУ	A4 hysteresis			
III (0	Sets A4 hysteresis.			
	 Available only when Alarm 4 output (A4 option) is ordered. 			
	Not available if No alarm action is selected in [A4 type].			
	• Setting range: 0.1 to 100.0°C (°F)			
	Direct current, DC voltage input: 1 to 1000 (The placement of the decimal point follows the selection.)			
8 189	A1 delay time			
	Sets A1 action delay time.			
	When setting time has elapsed after the input enters the alarm output range, the			
	alarm is activated.			
	Not available if No alarm action is selected in [A1 type].			
0.7.01	Setting range: 0 to 10000 seconds			
8243	A2 delay time			
	• Sets A2 action delay time.			
	When setting time has elapsed after the input enters the alarm output range, the			
	alarm is activated.			
	• Not available if No alarm action is selected in [A2 type].			
	Not available if the Insulated power output (P24 option or P5 option) is ordered. • Setting range: 0 to 10000 seconds			
	· Jetting range. U tu Tuuuu setunus			

Character Factory Default	Setting Item, Function, Setting Range		
8389	A3 delay time		
	Sets A3 action delay time.		
·	When setting time has elapsed after the input enters the alarm output range, the		
	alarm is activated.		
		action or High/Low limit range alarm is selected in	
	[A3 type].		
	• Setting range: 0 to 10000	seconds	
Ячду	A4 delay time		
Ω	Sets A4 action delay time.		
	-	psed after the input enters the alarm output range, the	
	alarm is activated.		
	• Available when Alarm 4 ou	utput (A4 option) is ordered.	
	Not available if No alarm a	action is selected in [A4 type].	
	Setting range: 0 to 10000	seconds	
Ггні	Transmission output 1 hig	gh limit	
1370	Sets the Transmission out	put 1 high limit value.	
	Standard		
	4-20 mA DC	Equals 20 mA DC output.	
	Optional		
	0-20 mA DC	Equals 20 mA DC output.	
	0-1 V DC	Equals 1 V DC output.	
	0-5 V DC, 1-5V DC	Equals 5 V DC output.	
	0-10 V DC	Equals 10 V DC output.	
	Setting range: Transmission output 1 low limit to Input range high limit (The		
	•	of the decimal point follows the selection or input range.)	
F-L I	Transmission output 1 lov		
-200	Sets the Transmission out	put 1 low limit value.	
	Standard		
		Equals 4 mA DC output.	
	Optional		
		Equals 0 mA DC output.	
		Equals 0 V DC output.	
	0-10 V DC		
		Equals 1 V DC output.	
		e low limit to Transmission output 1 high limit (The	
		of the decimal point follows the selection or input range.)	
FrH2	Transmission output 2 hig		
סרבו	Sets the Transmission out		
		ion output 2 (T \Box 2 option) is ordered.	
		Equals 20 mA DC output.	
		Equals 20 mA DC output.	
		Equals 1 V DC output.	
		Equals 5 V DC output.	
		Equals 10 V DC output.	
	•••	on output 2 low limit to Input range high limit (The	
	placement of	of the decimal point follows the selection or input range.)	

Character Factory Default	Setting Item, Function, Setting Range			
T-L2	Transmission output 2 low limit			
-200	Sets the Transmission output 2 low limit value.			
	Available when Transmission output 2 ($T\Box$ 2 option) is ordered.			
	4-20 mA DC	Equals 4 mA DC output.		
	0-20 mA DC	Equals 0 mA DC output.		
	0-1 V DC, 0-5 V DC,	· · ·		
	0-10 V DC, 0-3 V DC, 0-10 V DC	Equals 0 V DC output.		
	1-5 V DC	Equals 1 V DC output.		
		e low limit to Transmission output 2 high limit (The		
		of the decimal point follows the selection or input range.)		
Hald	Event input function			
Hold	Selects Event input function	on.		
		munication (C5 option) is ordered.		
	・ Hold (HOLD):			
	•	held and indicated by closing Event input terminals (14,		
	,	n is cancelled by opening the Event input terminals (14,		
	17).			
	<i>P</i> _ <i>H</i> ☐ (Peak HOLD):			
		PV is indicated by closing Event input terminals (14, 17).		
		n is cancelled by opening the Event input terminals		
	(14, 17).			
	b - H (Bottom HOLD):			
	The updated minimum PV is indicated by closing Event input terminals (14, 17). The Bottom HOLD function is cancelled by opening Event input terminals			
	(14, 17).			
	HE H (Alarm HOLD 1):			
	If any of [A1 HOLD function] to [A4 HOLD function] is set to "Enabled", and if the alarm is ON, the alarm will be maintained by closing Event input terminals (14,			
	17). The Alarm HOLD function will be cancelled by opening Event input terminals			
	The Alarm HOLD function will be cancelled by opening Event input terminals (14, 17). While the Event input terminals (14, 17) are open, the Alarm HOLD			
	function will be disabled			
	HL 글곧 (Alarm HOLD 2):			
		tion] to [A4 HOLD function] is set to "Enabled", and if the		
	alarm is ON, the alarm v	will be maintained by opening the Event input terminals		
	(14, 17).			
	The Alarm HOLD function	on will be cancelled by closing Event input terminals (14,		
		ut terminals (14, 17) are closed, the Alarm HOLD		
	function will be disabled			
R IHd	A1 HOLD function			
nonE	• Enables/Disables the A1 H			
		action is selected in [A1 type].		
		to "Enabled", and if the alarm is ON, the alarm output		
		ed until the following is conducted.		
		ed for approx. 3 seconds.		
	The power is turned O The HOLD is cancelled			
	• The HOLD is cancelled During A1 HOLD, the A1 a	d by the Event input function.		
	• ngnE : Disabled			
	Hald : Enabled			

Character	Setting Item, Function, Setting Range		
Factory Default			
RSH9	A2 HOLD function		
nonE	• Enables/Disables the A2 HOLD function.		
	Not available if No alarm action is selected in [A2 type].		
	Not available if Insulated power output (P24 option or P5 option) is ordered.		
	• If A2 HOLD function is set to "Enabled", and if the alarm is ON, the alarm output		
	ON status will be maintained until the following is conducted.The FAST key is pressed for approx. 3 seconds.		
	The power is turned OFF.		
	• The HOLD is cancelled by the Event input function.		
	During A2 HOLD, the A2 action indicator flashes.		
	• $\neg \neg \neg E$: Disabled $H_{\square}L_{\square}$: Enabled		
ЯЗНа	A3 HOLD function		
nonE	Enables/Disables the A3 HOLD function.		
nonc	Not available if No alarm action or High/Low limit range alarm is selected in [A3 type].		
	• If A3 HOLD function is set to "Enabled", and if the alarm is ON, the alarm output		
	ON status will be maintained until the following is conducted.		
	The FAST key is pressed for approx. 3 seconds.		
	The power is turned OFF.		
	 The HOLD is cancelled by the Event input function. 		
	During A3 HOLD, the A3 action indicator flashes.		
	 nonE: Disabled Hold: Enabled 		
Ячна	A4 HOLD function		
nonE	Enables/Disables the A4 HOLD function.		
	Available when Alarm 4 output (A4 option) is ordered.		
	Not available if No alarm action is selected in [A4 type].		
	• If A4 HOLD function is set to "Enabled", and if the alarm is ON, the alarm output		
	ON status will be maintained until the following is conducted.		
	• The FAST key is pressed for approx. 3 seconds.		
	• The power is turned OFF.		
	 The HOLD is cancelled by the Event input function. During A4 HOLD, the A4 action indicator flashes. 		
	• $\Box \Box \Box \Box E$: Disabled $H_{\Box} L d$: Enabled		
<i></i>			
roof	 Square root function Enables/Disables the square root extraction function. 		
nonE	 Indication value or square root extraction value is expressed by the formula below. 		
	$PV' = \sqrt{PV}$		
	$PV' = \sqrt{PV}$ PV': Indication value, square root extraction value		
	PV: Process variable		
	• npnE: Disabled USE: Enabled		
Leur	Low level cutoff (e.g.) Input: 4-20 mA DC, Scaling range: 0-100		
	Sets the low level cutoff value.		
······································	• When PV input is near 0 (zero), In this case, PV becomes 0 if it is lower than 1.0%.		
	the result of square root extraction value		
	changes considerably with only		
	a very small change of input.		
	In this case, the PV is forced to		
	become 0 (zero).		
	If PV input is lower than the low level 10		
	cutoff value, the PV will become 0.		
	Setting range: 0.0 to 25.0% of input		
	range 0 4 20 Input (mA)		
	(Fig. 5.4-3) 1.0% of input range (4.16 mA)		

5.5 Maintenance Mode

To enter Maintenance mode, press the **UP** and **FAST keys** (in that order) together for approx. 5 seconds in PV/SV Display Mode.

If the unit enters Maintenance mode, all outputs are forced to turn OFF.

Character	Setting Item, Function, Setting Range			
Factory Default				
AER I	A1 output ON/OFF			
oFF	 A1 output can be turned ON by the UP key, and OFF by the DOWN key. 			
	・ _ロ ドFII: Output OFF			
	on :: Output ON			
A_82	A2 output ON/OFF			
oFF	 A2 output can be turned ON by the UP key, and OFF by the DOWN key. 			
	Not available if Insulated power output (P24 option or P5 option) is ordered.			
	・ _ロ FFII: Output OFF			
	DIT : Output ON			
AA	A3 output ON/OFF			
oFF	 A3 output can be turned ON by the UP key, and OFF by the DOWN key. 			
	・ _ロ FF : Output OFF			
	DIT : Output ON			
<u>a</u> _84	A4 output ON/OFF			
oFF	 A4 output can be turned ON by the UP key, and OFF by the DOWN key. 			
	Available when Alarm 4 output (A4 option) is ordered.			
	 □FF Output OFF 			
	DIT : Output ON			
ADT I	Transmission output 1 manual output			
00	Sets output amount of Transmission output 1.			
	Setting range: 0.0 to 100.0%			
7072	Transmission output 2 manual output			
00	Sets output amount of Transmission output 2.			
	Available when Transmission output 2 (T \Box 2 option) is ordered.			
	Setting range: 0.0 to 100.0%			

6. Operation

6.1 Operation

After the JIR-301-M is mounted to the control panel and wiring is completed, operate the unit following the procedure below.

(1) Turn the power supply to the JIR-301-M ON.

For approximate 3 sec after the power is switched ON, the input characters and the temperature unit are indicated on the PV Display, and input range high limit (thermocouple, RTD input) or scaling high limit (Direct current, DC voltage input) is indicated on the SV Display. See (Table 5-1) (p.13). During this time, all outputs and LED indicators are in an OFF status.

After that, Indication starts, indicating PV on the PV Display, and A1, A2, A3 or A4 value on the SV Display.

(2) Enter each set value.

Enter each set value, referring to Section "5. Setup".

6.2 Switching SV Display Indication

To change indication on the SV Display, press the UP and MODE keys (in that order) together in the PV/SV Display Mode. The next alarm value (of the currently indicated A1-A4 value) will be displayed. If the UP and MODE keys (in that order) are pressed together at [A4 value indication], the unit reverts to [A1 value indication].

Indication	Setting Item, Function		
PV	A1 value indication		
A1 value	 Indicates A1 value on the SV Display, and the A1 value indicator is lit. 		
	Not available if No alarm action is selected in [A1 type].		
PV	A2 value indication		
A2 value	 Indicates A2 value on the SV Display, and the A2 value indicator is lit. 		
	Not available if No alarm action is selected in [A2 type].		
	Not available if Insulated power output (P24 option or P5 option) is ordered.		
PV	A3 value indication		
A3 value	 Indicates A3 value on the SV Display, and the A3 value indicator is lit. 		
	Not available if No alarm action or High/Low limit range alarm is selected in [A3 type].		
PV	A4 value indication		
A4 value	 Indicates A4 value on the SV Display, and the A4 value indicator is lit. 		
	If High/Low limit range alarm is selected in [A4 type], the SV Display indicates		
	A4 low limit value.		
	While the UP key is pressed, the SV Display indicates A4 high limit value.		
	 Available when Alarm 4 output (A4 option) is ordered. 		
	Not available if No alarm action is selected in [A4 type].		

6.3 How to Use the Alarm Output

(e.g.) To use A1 output, follow the procedure below.

- (1) Select an A1 type in [A1 type] (p.19) in Auxiliary function setting mode 2.
- (2) Set the following items in Auxiliary function setting mode 2 if required:
 - A1 Energized/De-energized (p.20), A1 hysteresis (p.21),
 - A1 delay time (p.21), A1 HOLD function (p.23)
- (3) Set the A1 value in [A1 value (p.14)] in Alarm setting mode.
- A1 output settings are complete.

The same applies to A2, A3 and A4 output.

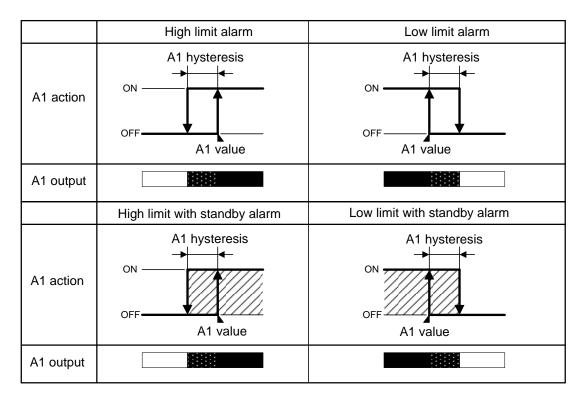
6.4 How to Use the Event Input Function

(e.g.) To use Peak HOLD of the Event input function, follow the procedure below.

- (1) Select Peak HOLD in [Event input function (p.23)] in Auxiliary function setting mode 2.
- (2) The updated maximum PV is indicated by closing Event input terminals (14, 17).The Peak HOLD function is cancelled by opening Event input terminals (14, 17).

7. Alarm Action

7.1 High Limit Alarm, Low Limit Alarm





: A1 output terminals (7, 8) ON

: A1 output terminals (7, 8) ON or OFF

- : A1 output terminals (7, 8) OFF
- []]]

: A1 output is in standby.

• The following terminal numbers are used for respective alarm outputs.

A2 output terminals: 9, 10

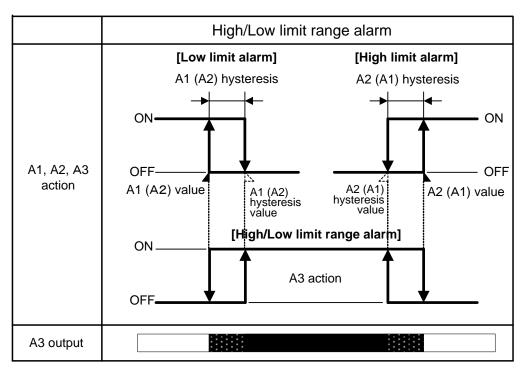
A3 output terminals: 12, 13 A4 output terminals: 15, 16

A4 output terminals. 15, 10

• A1, A2, A3 or A4 action indicator is lit when each output terminals are ON.

A1, A2, A3 or A4 action indicator is turned off when its output terminals are OFF.

7.2 A3 High/Low Limit Range Alarm Action



: A1 output terminals (7, 8): OFF, A2 output terminals (9, 10): OFF, A3 output terminals (12, 13): ON



: A1 output terminals (7, 8), A2 output terminals (9, 10) and A3 output terminals (12, 13): ON or OFF

: A1 output terminals (7, 8): ON, A2 output terminals (9, 10): ON, A3 output terminals (12, 13): OFF

A3 High/Low limit range alarm action is determined by setting A1 value and A2 value.

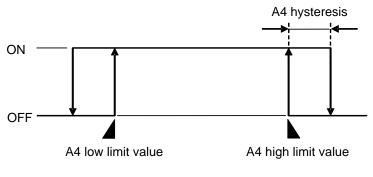
A3 is activated (ON) when both A1 and A2 are OFF – by combining A1 High limit alarm (or High limit with standby alarm) and A2 Low limit alarm (or Low limit with standby alarm) and vice versa. When standby function, hysteresis or delay time for A1 and A2 are set, check the below A3 action.

Please note the following:

- If A1 or A2 with standby alarm is selected, A3 is turned ON while A1 or A2 is in standby.
- If A1 or A2 hysteresis increases, A3 ON span decreases.
- When A1 or A2 delay time (setting time) increases, A3 ON time increases.
- If A1 or A2 delay time (setting time) is set, while A1 or A2 delay time is working (when power to the instrument is turned ON), A3 is turned ON.

7.3 A4 High/Low Limit Range Alarm Action

When High/Low limit range alarm is selected in [A4 type]:



```
(Fig. 7.3-1)
```

8. Specifications

8.1 Standard Specifications

Rating

Input						
	Thermo- K, J, R, S, B, E, T, N, PL-II, C(W/Re5-26)					
	couple External resistance: 100 Ω max. (However, B input: 40 Ω max.)					40 Ω max.)
	RTD Pt100, JPt100 3-wire type					
		Allowabl	le input lead wire re	sistance: 1	Ω max. per v	wire
	Direct	0-20 mA l	DC, 4-20 mA DC (S	elect an ex	ternally mounte	ed shunt resistor
	current	or a built-	in shunt resistor.)			
		Input im	pedance: 50 Ω			
		Allowabl	le input current: 50	mA DC max	ζ.	
	DC voltage 0-1 V DC					
		Input im	pedance: 1 M Ω mir	า.		
		Allowable input voltage: 5 V DC max.				
		Allowable signal source resistance: $2 k\Omega$ max.				
		0-5 V DC, 1-5 V DC, 0-10 V DC				
		Input impedance: 100 kΩ min.				
		Allowabl	le input voltage: 15	V DC max.		
		Allowabl	le signal source res	istance: 10	ΟΩ max.	
Power						
supply	Model		JIR-301-I	M	JIR-3	01-M 1
voltage	Power supply	y voltage	100 to 240 V AC	50/60Hz	24 V AC/DC	50/60Hz
	Allowable vo		85 to 264 V AC		20 to 28 V AC	C/DC
	fluctuation ra	ange				

General Structure

Dimensions	96 x 48 x 110 mm (W x H x D)			
Mounting	Flush (Mountable panel thickness: 1 to 8 mm)			
Material	Case: Flame-resistant resin, Color: Light gray			
Drip-proof/Dust-proof	IP66 (for front panel only)			
Setting method	Input system using membrane sheet key			
Display	PV Display: Red LED 5-digits, Character size, 16 x 7.2 mm (H x W)			
	SV Display: Green LED 5-digits, Character size, 10 x 4.8 mm (H x W)			

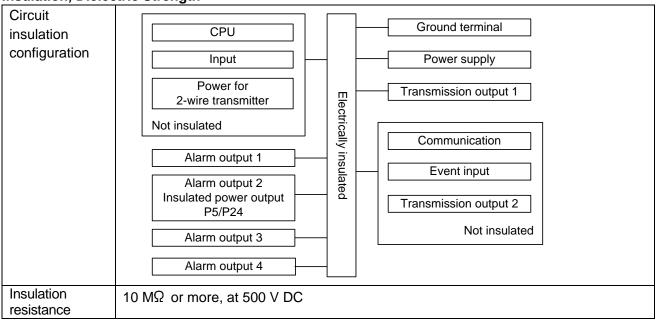
Indication Performance

Indication		
accuracy	Thermocouple	Within ±0.2% of each input span ±1 digit, or within ±2°C (4°F), whichever is greater However, R, S input, 0 to 200°C (32 to 392°F): Within ±6°C (12°F) B input, 0 to 300°C (32 to 572°F): Accuracy is not guaranteed. K, J, E, T, N input, Less than 0°C (32°F): Within ±0.4% of each input span ±1 digit
	RTD	Within $\pm 0.1\%$ of each input span ± 1 digit, or within $\pm 1^{\circ}$ C (2°F), Whichever is greater
	Direct current, DC voltage	Within $\pm 0.2\%$ of each input span ± 1 digit
Input sampling period		125 ms

Standard Function

Standard Function	on				
A1 output,	The alarm action point can be set at random (process alarm), and if the input				
A2 output,	reaches the ra	omly set action poin	t, the alarm output turns ON or OFF		
A3 output			Energized/De-energized selection.		
/ to output	The alarm type can be selected from; No alarm action, High limit alarm, Low limit				
	-		Low limit with standby alarm and High/Low		
	limit range alarm (for A3 output only).				
			elected when A1 High limit alarm (High limit		
			alarm (Low limit with standby alarm) are		
			m (Low limit with standby alarm) and A2		
			by alarm) are combined.		
	Action	N/OFF action			
	Hysteresis	1 to 100.0℃ (°F)			
		irect current, DC volta	ge input: 1 to 1000 (The placement of the		
			decimal point follows the selection.)		
	Alarm		Alarm HOLD function.		
	HOLD	D If Alarm HOLD function is set to "Enabled", and if the alarm is ON,			
	function	•	status will be maintained until the following is		
		onducted.			
			pressed for approx. 3 seconds.		
		• The power is turn	celled by the Event input function.		
			corresponding alarm action indicator flashes.		
	Output	elay contact 1a	corresponding alarm action indicator hashes.		
	Output		250 V AC (resistive load)		
		lectrical life: 100,000			
			5,000		
Transmission	Converting th	V to analog signal e	very 125 ms, outputs the value in direct		
output 1	-	•••	nction) (When using the Transmission output 1		
			ents, check that the input impedance of these		
			um load resistance of Transmission output 1.)		
	Resolution	12000			
	Direct currer	4 to 20 mA DC (Load resistance: Max. 550 Ω)		
	Output accur		of transmission output span		
	Response tir		ampling period (0%→90%)		

Insulation, Dielectric Strength



-	
Dielectric	Input terminal and ground terminal: 1.5 kV AC for 1 minute
strength	Input terminal and power terminal: 1.5 kV AC for 1 minute
l	Power terminal and ground terminal: 1.5 kV AC for 1 minute
	Output terminal and ground terminal: 1.5 kV AC for 1 minute
	Output terminal and power terminal: 1.5 kV AC for 1 minute
	(Output terminals: A1, A2, A3 and A4 output terminals, Transmission output 1
	terminals, Transmission output 2 terminals and communication terminals)

Attached Function

	hen the thermod	couple or RTD input is l	ournt out, the PV Display flashes 🎽	
or				
n 📘	Indication		Contents	
	flashes.	Overscale: Measured value has exceeded indication range high limit.		
	flashes. Underscale: Measured value has dropped below range low limit.			
	hermocouple,	RTD input		
İ	Input	Input Range	Indication Range	
		-200 to 1370℃	-250 to 1420℃	
		-320 to 2500°F	-420 to 2600°F	
	К	-200.0 to 400.0℃	-200.0 to 450.0℃	
		-200.0 to 750.0°F	-200.0 to 850.0°F	
		-200 to 1000℃	-250 to 1050℃	
	J	-320 to 1800°F	-420 to 1900°F	
	_	0 to 1760℃	-50 to 1810℃	
	R	0 to 3200°F	-100 to 3300°F	
	S	0 to 1760℃	-50 to 1810℃	
		0 to 3200°F	-100 to 3300°F	
	В	0 to 1820℃	-50 to 1870℃	
		0 to 3300°F	-100 to 3400°F	
	_	-200 to 800℃	-250 to 850℃	
	E	-320 to 1500°F	-420 to 1600°F	
	+	-200.0 to 400.0℃	-200.0 to 450.0℃	
	Т	-200.0 to 750.0°F	-200.0 to 850.0°F	
		-200 to 1300℃	-250 to 1350℃	
	Ν	-320 to 2300°F	-420 to 2400°F	
		0 to 1390℃	-50 to 1440°C	
	PL-Ⅱ	0 to 2500°F	-100 to 2600°F	
		0 to 2315℃	-50 to 2365℃	
	C(W/Re5-26)	0 to 4200°F	-100 to 4300°F	
		-200.0 to 850.0℃	-200.0 to 900.0°C	
	D+100	-200.0 to 1000.0°F	-200.0 to 1100.0°F	
	Pt100	-200 to 850℃	-210 to 900°C	
		-300 to 1500°F	-318 to 1600°F	
		-200.0 to 500.0℃	-200.0 to 550.0°C	
		-200.0 to 900.0°F	-200.0 to 1000.0°F	
	JPt100	-200 to 500℃	-207 to 550℃	
		-300 to 900°F	-312 to 1000°F	

Input error	• Direct current	DC voltage input			
indication	If measured value exceeds Indication range high limit value, the PV Display				
	flashes []], and if measured value drops below the Indication range low limit				
		splay flashes			
	Indication range: [Scaling low limit value – Scaling span x 1%] to				
	[Scaling high limit value + Scaling span x 10%]				
	DC input disconnection:				
	When DC input is disconnected, the PV Display flashes for 4 to 20 mA DC and 1 to 5 V DC input, and for 0 to 1 V DC input.				
	For 0 to 20 mA DC, 0 to 5 V DC and 0 to 10 V DC input, the PV Display indicates				
	the value corresponding with 0 mA or 0 V.				
Set value lock		les to prevent setting errors. (p.15)			
Sensor correction		t value from a sensor.			
coefficient	Sets slope of inpu				
Sensor correction	Corrects the input	value from a sensor. (p.15)			
Power failure		s backed up in the non-volatile IC memory.			
countermeasure	The setting data is	backed up in the non volatile to memory.			
Self-diagnosis		cored by a watchdog timer, and if an abnormal status is found on			
	the CPU, the JIR-	301-M is switched to warm-up status.			
Automatic cold	This detects the temperature at the connecting terminal between the thermocouple and				
junction temp.	the instrument, and always maintains it at the same status as if the reference junction				
compensation	location temperatu	ıre was at 0°℃ (32°F).			
Event input	Selects Event inp	ut function from 3 types of HOLD function and 2 types of Alarm			
function	HOLD function. N	ot available if Serial communication (C5 option) is ordered.			
	HOLD	PV (indicated value only) at the given time is held and			
		indicated by closing Event input terminals (14, 17). The HOLD			
		function is cancelled by opening Event input terminals (14, 17).			
	Peak HOLD	The updated maximum PV is indicated by closing Event input			
		terminals (14, 17). The Peak HOLD function is cancelled by			
		opening Event input terminals (14, 17).			
		The updated minimum PV is indicated by closing Event input			
	Bottom HOLD				
		terminals (14, 17). The Bottom HOLD function is cancelled by			
		opening Event input terminals (14, 17).			
	Alarm HOLD 1	If any of [A1 HOLD function] to [A4 HOLD function] is set to			
		"Enabled", and if the alarm is ON, the alarm will be maintained			
		by closing Event input terminals (14, 17).			
		The alarm HOLD function will be cancelled by opening Event			
		input terminals (14, 17). While Event input terminals (14, 17)			
		are open, the alarm HOLD function will be disabled.			
	Alarm HOLD 2	If any of [A1 HOLD function] to [A4 HOLD function] is set to			
		"Enabled", and if the alarm is ON, the alarm will be maintained			
		by opening Event input terminals (14, 17).			
		The alarm HOLD function will be cancelled by closing Event			
		input terminals (14, 17). While Event input terminals (14, 17)			
		are closed, the alarm HOLD function will be disabled.			
	A 44				
Warm-up		ned ON, the input characters and temperature unit will be indicated			
indication	on the PV Display, and the input range high limit (for thermocouple, RTD input) or				
		for direct current, DC voltage input) will be indicated on the SV			
	Display for approx	A. J 300.			

Other

Power				
consumption	Supply Voltage	Power Consumption		
	100 to 240 V AC	Approx. 8 VA (When maximum options are ordered: Approx.10 VA)		
	24 V AC	Approx. 6 VA (When maximum options are ordered: Approx.9 VA)		
	24 V DC	Approx. 4 W (When maximum options are ordered: Approx.7 W)		
Ambient temperature	0 to 50℃ (32 to 122	0 to 50℃ (32 to 122°F)		
Ambient humidity	35 to 85 %RH (non-	35 to 85 %RH (non-condensing)		
Altitude	2,000 m or less	2,000 m or less		
Weight	Approx. 300 g	Approx. 300 g		
Accessories	Screw type mountir	ng brackets (1 set), Instruction manual excerpt (1 copy),		
	Terminal cover (1 piece, When the TC option is ordered)			

8.2 Optional Specifications

Serial communication (C5 option)	When the C5 option is ordered, the Event input function cannot be used. The following operations can be carried out from an external computer. • Reading and setting of various set values • Reading of PV and action status • Function change Communication line EIA RS-485 Communication Half-duplex communication					
	method Communication speed	2400, 4800,	9600, 19200, 38400	bps		
	Synchronization metho	d Start-stop sy	nchronization			
	Parity	Even, Odd ,	No parity (Selectable	e by keypad)		
	Stop bit		able by keypad)			
	Communication protocol	In addition,	Shinko protocol, MODBUS ASCII, MODBUS RTU In addition, each protocol above is available with Block Read/Write.			
		,	(Selectable by keypad)			
	Connectable number of units	Maximum 0	Maximum 31 units to 1 host computer			
	Communication error detection	Double dete	Double detection by parity and checksum			
	Data format					
	Communication protocol	Shinko protocol	MODBUS ASCII	MODBUS RTU		
	Start bit	1	1	1		
	Data bit (*1)	7	7	8		
	Parity	Even	Selection [Even] (*2)	Selection [No parity] (*2)		
	Stop bit	1	Selection [1] (*2)	Selection [1] (*2)		
	(*1) Data bit is automa (*2) []: Basic set valu		oon selecting the comr	nunication protocol.		
Alarm 4 output	This option and Transmission output 2 (T \Box 2 option) cannot be used together.			t be used together.		
(A4 option)	Alarm type, alarm action and alarm output are the same as those of A1, A2 and A3					
	output except High/Lo	w limit range ala	Irm.			

Insulated power			e A2 function will be disabled. d with the Insulated power output (P5 option) together,	
output	-		wer for 2-wire transmitter (DSB option) together.	
(P24 option)	Output voltage		24 ± 3 V DC (When load current is 30 mA)	
	Ripple voltage		Within 200 mV DC (When load current is 30 mA)	
	Max load curre		30 mA DC	
		nı	30 MA DC	
Insulated power	If this option is c	ordered, th	e A2 function will be disabled.	
output	This option cannot be used with the Insulated power output (P24 option) together			
(P5 option)	or cannot be use	ed with Po	wer for 2-wire transmitter (DSB option) together.	
,	Output voltage		5 ± 0.5 V DC (When load current is 30 mA)	
	Ripple voltage		Within 200 mV DC (When load current is 30 mA)	
	Max load curre	nt	30 mA DC	
Power for 2-wire transmitter (DSB option)	can be used. This option canr option) together.	not be use	nly 4 to 20 mA DC input (Built-in 50 Ω shunt resistor) d with the Insulated power output (P24 option or P5	
	Output voltage		24±3 V DC (When load current is 30 mA)	
	Ripple voltage		Within 200 mV DC (When load current is 30 mA)	
	Max load curre	nt	30 mA DC	
_				
Transmission			d with Alarm 4 output (A4 option) together.	
output 2	Resolution			
(T \Box 2 option)	Output accurac	-	Within ±0.3% of transmission output span	
	Response time400 ms + Input sampling period (0%→90%)			
	Option Code		Transmission Output Type	
	TA2 (4-20)	Direct	4 to 20 mA DC (Load resistance: Max 550 Ω)	
	TA2 (0-20)	current	0 to 20 mA DC (Load resistance: Max 550 Ω)	
	TV2 (0-1)		0 to 1 V DC (Load resistance: Minimum 100 k Ω)	
	TV2 (0-5)	DC	0 to 5 V DC (Load resistance: Minimum 500 k Ω)	
	TV2 (0-0)	voltage	1 to 5 V DC (Load resistance: Minimum 500 k Ω)	
	TV2 (0-10)	Voltage	0 to 10 V DC (Load resistance: Minimum 1 M Ω)	
User specified			tput can be changed to the following 'User specified	
Transmission	Transmission ou	itput'.		
output	Option Code		Transmission Output Type	
(TA, TV option)	TA (0-20)	Direct current	0 to 20 mA DC (Load resistance: Max 550 Ω)	
	TV (0-1)		0 to 1 V DC (Load resistance: Minimum 100 k Ω)	
	TV (0-5)	DC	0 to 5 V DC (Load resistance: Minimum 500 k Ω)	
	TV (1-5)	voltage	1 to 5 V DC (Load resistance: Minimum 500 k Ω)	
	TV (0-10)	1	0 to 10 V DC (Load resistance: Minimum 1 M Ω)	
			<u>_</u>	
Color Black	Panel: Dark gray	y		
(BK option)	Case: Black			
Terminal cover	Electrical shock	protection	terminal cover	
(TC option)				

9. Troubleshooting

If any malfunctions occur, refer to the following items after checking that power is being supplied to the JIR-301-M.

the JIR-301-M. Problem	Possible Cause	Solution
The PV Display	Internal memory is defective.	Contact us or our agency in your region.
indicates Err I.		
indicates Err 1. The PV Display indicates	Burnout of thermocouple, RTD or disconnection of DC voltage (0 to 1 V DC)	Replace each sensor. How to check whether the sensor is burnt out [Thermocouple] If the input terminals of the instrument are shorted, and if a value around room temperature is indicated, the instrument is likely to be operating normally, however, the sensor may be burnt out. [RTD] If approx. 100 Ω of resistance is connected to the input terminals between A-B of the instrument and between B-B is shorted, and if a value around 0°C (32°F) is indicated, the instrument is likely to be operating normally, however, the sensor may be burnt out. [DC voltage (0 to 1 V DC)] If the input terminals of the instrument are shorted, and if a scaling low limit value is indicated, the
	Check whether the input terminals of thermocouple, RTD or DC voltage (0 to 1 V DC) are securely connected to the instrument input terminals.	instrument is likely to be operating normally, however, the signal wire may be disconnected. Connect the sensor terminals to the instrument input terminals securely.
The PV Display flashes	Check whether input signal wire for DC voltage (1 to 5 V DC) or direct current (4 to 20 mA DC) is disconnected.	 How to check whether the input signal wire is disconnected [DC voltage (1 to 5 V DC)] If the input to the input terminals of the instrument is 1 V DC and if a scaling low limit value is indicated, the instrument is likely to be operating normally, however, the signal wire may be disconnected. [Direct current (4 to 20 mA DC)] If the input to the input terminals of the instrument is 4 mA DC and if a scaling low limit value is indicated, the instrument is likely to be operating normally, however, the signal wire may be disconnected.
	Check whether input signal wire for DC voltage (1 to 5 V DC) or direct current (4 to 20 mA DC) is securely connected to the instrument input terminals. Check if polarity of thermo- couple or compensating lead wire is correct. Check whether codes (A, B, B) of RTD agree with the instrument terminals.	Ensure that the input signal wire is securely connected to the instrument input terminals. Wire them correctly.

Problem	Possible Cause	Solution
The PV Display	Check whether the input signal	How to check whether the input signal wire is
keeps indicating	wires of DC voltage (0 to 5 V	disconnected
the value set in	DC, 0 to 10 V DC) and direct	[DC voltage (0 to 5 V DC, 0 to 10 V DC)]
[Scaling low limit].	current (0 to 20 mA DC) is	If the input to the input terminal of this instrument
	disconnected.	is 1 V DC, and if a value (converted value from
		scaling high, low limit setting) corresponding to 1
		V DC is indicated, the instrument is likely to be
		operating normally, however, the input signal wire
		may be disconnected.
		[Direct current (0 to 20 mA DC)]
		If the input to the input terminal of this instrument
		is 4 mA DC, and if a value (converted value from
		scaling high, low limit setting) corresponding to 4
		mA DC is indicated, the instrument is likely to be
		operating normally, however, the input signal wire
		may be disconnected.
	Check whether the input	Connect the input terminals of DC voltage and
	terminals of DC voltage	current to the input terminals of this instrument
	(0 to 5 V DC, 0 to 10 V DC) or	securely.
	direct current (0 to 20 mA DC)	
	are securely connected to the	
The indiantian of	instrument input terminals.	
The indication of	Check whether sensor input or	Select the sensor input and temperature unit (°C
PV Display is	temperature unit (°C or °F) is	or °F) correctly.
irregular or unstable.	correct. Sensor correction coefficient or	Cat them to quitable values
unstable.	Sensor correction value is	Set them to suitable values.
	unsuitable.	
	Check whether the sensor	Use a sensor with appropriate specifications.
	specification is correct.	Use a sensor with appropriate specifications.
	AC leaks into the sensor	Use an ungrounded type sensor.
	circuit.	Ose an ungrounded type sensor.
	There may be equipment that	Keep the instrument clear of any potentially
	interferes with or makes noise	disruptive equipment.
	near the instrument.	
Values on the PV	Terminals 14 and 17 are	Cancel the HOLD function by opening terminals
Display do not	closed, and the HOLD function	14 and 17.
change.	is working.	
Even if the UP key	Set value lock (Lock 1 or	Release the lock in [Set value lock].
or DOWN key is	Lock 2) is selected.	
pressed, values		
do not change.		

10. Character Table

Depending on the model and setting contents, some setting items do not appear.

10.1 Alarm Setting Mode

If the MODE key is pressed in PV/SV Display Mode, the unit will move to Alarm setting mode.

Character	Setting Item, Function, Setting Range		
Factory Default	Setting item, Function, Setting Kange		
8 /	A1 value		
	Refer to (Table 10.1-1).		
82	A2 value		
<u> </u>	Refer to (Table 10.1-1).		
83	A3 value		
	Refer to (Table 10.1-1).		
84	A4 value		
	Refer to (Table 10.1-1).		
ЯЧН	A4 high limit value		
Ο	Refer to (Table 10.1-1).		

(Table 10.1-1)

Alarm Type	Setting Range
High limit alarm	Input range low limit to input range high limit (*1)
Low limit alarm	Input range low limit to input range high limit (*1)
High limit with standby	Input range low limit to input range high limit (*1)
alarm	
Low limit with standby	Input range low limit to input range high limit (*1)
alarm	
High/Low limit range	A4 low limit value: Input range low limit (*2) to A4 high limit
alarm (A4)	A4 high limit value: A4 low limit to input range high limit (*3)

• The placement of the decimal point follows the selection or input range.

(*1) For direct current and DC voltage input: Setting range is [Scaling low limit to Scaling high limit].

(*2) For direct current and DC voltage input: Will be substituted by the Scaling low limit.

(*3) For direct current and DC voltage input: Will be substituted by the Scaling high limit.

10.2 Auxiliary Function Setting Mode 1

To enter Auxiliary Function Setting Mode 1, press and hold the DOWN key and MODE key (in that order) together for approx. 3 seconds in PV/SV Display Mode.

Character Factory Default	Setting Item, Function, Setting Range		
	Set value lock		
	 (Unlock): All set values can be changed. 		
	L_{DC} / (Lock 1): None of the set values can be changed.		
	$l_{DC} = \frac{1}{c^2}$ (Lock 2): Only Alarm setting mode (p.14) can be changed.		
	$L \Box \subset \vec{J}$ (Lock 3): All set values – except the input type (p.18) – can be changed.		
	However, changed values revert to their previous value after		
	power is turned off because they are not saved in the		
	non-volatile IC memory. Do not change any setting items in		
	Auxiliary function setting mode 2 (pp.18 - 24). If any item is		
	changed in Auxiliary function setting mode 2, it will affect the		
	alarm value (A1 value - A4 value).		
50E	Sensor correction coefficient		
1000	• Setting range: -10.000 to 10.000		
5 <u>0</u>	Sensor correction		
	• Setting range: -1000.0 to 1000.0°C (°F)		
	Direct current, DC voltage input: -10000 to 10000 (The placement of the decimal		
	point follows the selection.)		
eñ4L	Communication protocol		
noñL	• הבה'_: Shinko protocol		
	nodR : MODBUS ASCII mode		
	とっった: Shinko protocol (Block Read/Write available)		
	とうされ MODBUS ASCII mode (Block Read/Write available)		
	とうごう : MODBUS RTU mode (Block Read/Write available)		
	Instrument number		
	Setting range: 0 to 95		
cñhP mac	Communication speed		
95	•		
	日 9600 bps		
	1921: 19200 bps		
	38400 bps		
sñPr	Parity		
EBEn	• הסת E : No parity		
	EBEn : Even		
	ದರ್]: Odd		
ะกับโ	Stop bit		
1	• / : 1 bit		
	\mathbf{z}' : 2 bits		

10.3 Auxiliary Function Setting Mode 2

To enter Auxiliary Function Setting Mode 2, press and hold the UP, DOWN and MODE keys (in that order) together for approx. 3 seconds in PV/SV Display Mode.

Character	Setting Item, Function, Setting Range				
Factory Default		Setting item, i unction, Setting Kange			
4874	Input type				
E	(Table 10.3-1)	.3-1)			
	Character	Input Range	Character	Input Range	
	E	K -200 to 1370°C	EF	K -320 to 2500°F	
	£	K -200.0 to 400.0℃	E F	K -200.0 to 750.0° _F	
	JE	J -200 to 1000℃	JEF	J -320 to 1800°F	
	<i>Γ</i>	R 0 to 1760°C	r F	R 0 to 3200°F	
	5 <u>5</u>	S 0 to 1760℃	'5F	S 0 to 3200°F	
	<u> </u>	B 0 to 1820℃	ЬШF	B 0 to 3300°F	
	ΕΞΕ	E -200 to 800°C	E	E -320 to 1500°F	
	<u> </u>	T -200.0 to 400.0℃	Г ,F	T -200.0 to 750.0°F	
	- Γ	N -200 to 1300℃	n F	N -320 to 2300°F	
	PLZE	PL-Ⅱ 0 to 1390℃	PL2F	PL- Ⅱ 0 to 2500°F	
	<u>ε</u> Ε	C(W/Re5-26) 0 to 2315℃	c F	C(W/Re5-26) 0 to 4200 F	
	PF <u>,</u> C	Pt100 -200.0 to 850.0℃	PF F	Pt100 -200.0 to 1000.0°F	
	JPF.E	JPt100 -200.0 to 500.0℃	JPF.F	JPt100 -200.0 to 900.0 F	
	ΡΓΞΕ	Pt100 -200 to 850°C	PFEF	Pt100 -300 to 1500°F	
	JPFE	JPt100 -200 to 500℃	JPEE	JPt100 -300 to $900^{\circ}F$	
	4208	4-20 mA DC -2000 to 100	000 (Externally	mounted 50 Ω shunt resistor)	
	0208	0-20 mA DC -2000 to 100	000 (Externally	mounted 50 Ω shunt resistor)	
	0 IB	0-1 V DC -2000 to 1000	0		
	0058	0-5 V DC -2000 to 1000	0		
	/ <u></u> 58	1-5 V DC -2000 to 1000	0		
	0 108	0-10 V DC -2000 to 100	00		
	4201	4-20 mA DC -2000 to 10	0000 (Built-in t	50 Ω shunt resistor)	
	0201	0-20 mA DC -2000 to 10	000 (Built-in t	50 Ω shunt resistor)	
45LH	Scaling high			(*)	
10000		: Scaling low limit to Input ra	nge high limit	(^)	
5511 5555	Scaling low li		lin o biob lineit	(*)	
-2000		: Input range low limit to Sca	ling nign limit	(^)	
dP	Decimal point place \mathcal{O} . No desired point				
		☐			
		ligits after decimal point			
		digits after decimal point			
FILT	PV filter time constant				
	Setting range: 0.0 to 10.0 sec				
RL IF	A1 type				
		alarm action			
	Here : High limit alarm				
	Letter Low limit alarm				
	$H \square \bar{\omega}$: High limit with standby alarm				
	of the decimal point follows the selection or input range				

(*) The placement of the decimal point follows the selection or input range.

Characters, Factory Default	Setting Item, Function, Setting Range		
RL 2F	A2 type		
	•: No alarm action		
	Himit alarm		
	L Low limit alarm		
	$H \square \bar{J}$: High limit with standby alarm		
	L . Low limit with standby alarm		
RL 3F	A3 type		
	• : No alarm action		
	HELLE: High limit alarm		
	L Low limit alarm		
	$H \square \square \overline{\omega}$: High limit with standby alarm		
	L: Low limit with standby alarm		
	ご/ 己□: High/Low limit range alarm		
RL HF	A4 type		
	: No alarm action		
	Here i High limit alarm		
	L Low limit alarm		
	$H \square \bar{\omega}$: High limit with standby alarm		
	L . Low limit with standby alarm		
	□, □, □, □: High/Low limit range alarm		
R ILA	A1 Energized/De-energized		
nañL	・ ヮヮゔ゚゚」:Energized		
	ー		
82LA	A2 Energized/De-energized		
noñL	• non! : Energized		
	~ 듣님与 : De-energized		
RBLA	A3 Energized/De-energized		
noñL	• npāl: Energized		
	<i>뉴 듣 님</i> 누 : De-energized		
RHLA	A4 Energized/De-energized		
noñL	• npāl: Energized		
	-EH-: De-energized		
R IHY	A1 hysteresis		
III (D	• Setting range: 0.1 to 100.0°C (°F)		
	Direct current, DC voltage input: 1 to 1000 (*)		
RSHA	A2 hysteresis		
ι ι <u>Ο</u>	• Setting range: 0.1 to $100.0^{\circ}C$ (F)		
	Direct current, DC voltage input: 1 to 1000 (*)		
RBHY	A3 hysteresis		
	• Setting range: 0.1 to 100.0°C (°F)		
	Direct current, DC voltage input: 1 to 1000 (*)		
ЯЧНУ	A4 hysteresis		
III 10	• Setting range: 0.1 to 100.0°C (°F)		
	Direct current, DC voltage input: 1 to 1000 (*)		

(*) The placement of the decimal point follows the selection.

Characters, Factory Default	Setting Item, Function, Setting Range
R 189	A1 delay time
0	Setting range: 0 to 10000 seconds
 R2dy	A2 delay time
<i>0</i>	Setting range: 0 to 10000 seconds
RBAA	A3 delay time
	Setting range: 0 to 10000 seconds
Ячду	A4 delay time
	Setting range: 0 to 10000 seconds
Ггні	Transmission output 1 high limit
סרבו	 Setting range: Transmission output 1 low limit to Input range high limit (*)
FrL I	Transmission output 1 low limit
-200	 Setting range: Input range low limit to Transmission output 1 high limit (*)
ГгН2	Transmission output 2 high limit
סרבו	 Setting range: Transmission output 2 low limit to Input range high limit (*)
F-L2	Transmission output 2 low limit
-200	 Setting range: Input range low limit to Transmission output 2 high limit (*)
Hald	Event input function
Hold	• <i>H_□'_ d</i> (HOLD):
	PV at the given time is held and indicated by closing Event input terminals (14,
	17). The HOLD function is cancelled by opening Event input terminals (14, 17).
	$P _ H \square$ (Peak HOLD): The updated maximum PV is indicated by closing Event input terminals (14, 17).
	The Peak HOLD function is cancelled by opening Event input terminals (14, 17). $b_{-}H$ (Bottom HOLD):
	The updated minimum PV is indicated by closing Event input terminals (14, 17). The Bottom HOLD function is cancelled by opening Event input terminals (14,
	HL H (Alarm HOLD 1):
	If any of [A1 HOLD function] to [A4 HOLD function] is set to "Enabled", and if the alarm is ON, the alarm will be maintained by closing Event input terminals (14, 17).
	The alarm HOLD function will be cancelled by opening Event input terminals (14, 17). While the Event input terminals (14, 17) are open, the alarm HOLD function will be disabled.
	 HL ∃ ≓ (Alarm HOLD 2): If any of [A1 HOLD function] to [A4 HOLD function] is set to "Enabled", and if the alarm is ON, the alarm will be maintained by opening Event input terminals (14, 17).
	The alarm HOLD function will be cancelled by closing Event input terminals
	(14, 17). While the Event input terminals (14, 17) are closed, the alarm HOLD
	function will be disabled.
R IHJ	A1 HOLD function
nonE	• hanE : Disabled
	Hold : Enabled

(*) The placement of the decimal point follows the selection or input range.

Characters, Factory Default	Setting Item, Function, Setting Range
RSH9	A2 HOLD function
nonE	• nonE : Disabled
	Hold : Enabled
ЯЗНа	A3 HOLD function
nonE	• nenE : Disabled
	Hold : Enabled
ЯЧНЫ	A4 HOLD function
nonE	• nonE : Disabled
	Hold : Enabled
raal	Square root function
nonE	• non£ : Disabled
	LI'->E Enabled
Leur	Low level cutoff
III 10	Setting range: 0.0 to 25.0% of input range

10.4 Maintenance Mode

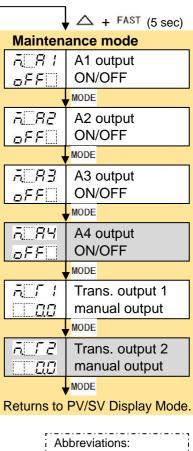
To enter Maintenance mode, press the UP and FAST keys (in that order) together for approx. 5 seconds in PV/SV Display Mode.

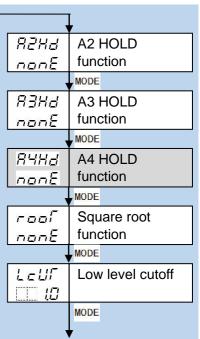
If the unit enters Maintenance mode, all outputs are forced to turn OFF.

Characters, Factory Default	Setting Item, Function		
ACR I	A1 output ON/OFF		
oFF	• _□ FF□ : Output OFF		
	DO : Output ON		
A_82	A2 output ON/OFF		
oFF	• DFF : Output OFF		
	DO : Output ON		
<u>a</u> _83	A3 output ON/OFF		
oFF	• □FF : Output OFF		
	DOI : Output ON		
<u> </u>	A4 output ON/OFF		
oFF	• □FF : Output OFF		
	ם ס : Output ON		
	Transmission output 1 manual output		
	Setting range: 0.0 to 100.0%		
a_r2	Transmission output 2 manual output		
	Setting range: 0.0 to 100.0%		

11. Key Operation Flowchart

Note → wode PV A2 value is A2 value displayed. • If Serial communication (RS-485)(C5 option) is ordered. [Event input function] will not be availe PV A3 value is A3 value displayed. • # wode PV A3 value is A3 value displayed. • # wode PV A4 value is A3 value displayed. • # wode PV A4 value is A4 value displayed. • # wode PV A4 value is A4 value displayed. • # wode PV A4 value is A4 value displayed. • # wode PV A4 value is A4 value displayed. • # wode A4 value displayed. • # wode A4 value (3 sec): Press and hold the △ , △ and Mote Keys (in that order) together for approx. 5 sec. The unit will move to Auxilary function setting mode 2. Maintenance mode • # # wode Mode A + value B2 A value • f / L B Scaling high limit B2 A value • f / L B Scaling low limit B2 B A value • f / L f P V filter time Mode F / M A value <th>Power ON</th> <th></th> <th></th> <th></th>	Power ON					
At value displayed. PV A2 value is A2 valu						
PV A2 value is A2 value displayed. • Solid communication (R5-459)(C5 option is ordered. PV A2 value is A2 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) (Even input function (with not be avail have displayed. PV A3 value is A3 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A3 value is A3 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A4 value is A3 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A4 value is A3 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A4 value is A3 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A4 value is A3 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A4 value is A4 value displayed. • Isolid communication (R5-459)(C5 option is ordered.) • Isolid communication (R5-459)(C5 option is ordered.) PV A4 value isoption (R5-459)(C5 option (R5-459)(C5 option (R5-459)(C						
PV A2 value : # Serial communication (#) Carl value		• Low	Lower left: SV Display: Indicates the factory default. Right side: Setting item			
PV AZ value JAC value is a value JAC value is a value is backward JAC value is a val	+ MODE	• Available only when option is ordered.				
AV value AV value A and work (a pack of the order) together. The unit will move to the next setting in the index (by fin that order) together for approx. 3 sec. The will wrave to Auxilary function setting mode. PV AV value is a work A work of sec. The unit will move to Auxilary function setting mode. AV value is a work of sec. The unit will move to Auxilary function setting mode. - + + + + + + + + + + + + + + + + + + +				event input function will not be availa		
illustrated by an arrow.A value is A value is b value is a value is b value is a value is b value is	A2 value displayed.		d MODE key (in that order) together. The	e unit will move to the next setting it		
PVA3 value is A4 value+ exer: Press the work key. The unit will move to Airm setting mode.PVA4 value \land + exer (3 sec) Press and hold the \checkmark and work key (in that order) together for approx. 3 sec. The will move to Auxilary function setting mode 1.PVA4 value displayed. \land + \neg + exer (5 sec) Press and hold the \checkmark and work key (in that order) together for approx. 3 sec. The will move to Auxilary function setting mode 2.A4 value displayed. \land + \neg + \neg + exer (5 sec) Press and hold the \checkmark and PSR key (in that order) together for approx. 5 sec. The unit will move to Maintenance mode.Aarm setting mode R \models A1 value \land + \models + \models + \models + \models (s coc)Aarm setting mode R \models A1 value \land + \models + \models + \models (s coc)Aarm setting mode R \models A1 value \land + \models + \models + \models (s coc)Aarm setting mode R \models A1 value \land + \models + \models + \models (s coc)Aarm setting mode R \models A1 value $$\downarrow$ + \models + \models + \models (s coc)Aarm setting mode R \models A1 value $$\downarrow$ + \models + \models + \models (s coc)Aarm setting mode R \models A1 value $$\downarrow$ + \models +	+ MODE			g		
V A valueA walk (applayed)A walk (applayed)<	PV A3 value is					
PV Ad value is ad val	A3 value displayed.	 V +MODE(3 sec): Press and ho 	old the 💙 and MODE key (in that or	der) together for approx. 3 sec. The		
Ad value displayed. 3 sec. The unit will move to Austing function setting mode 2. \bigtriangleup + FART (5 sec): Press and hold the \bigtriangleup and FAR keys (in the addred) together for approx. 5 sec. The unit will move to Maintenance mode. \bigtriangleup + FART (5 sec): Press and hold the \bigtriangleup and FAR keys (in the addred) together for approx. 5 sec. The unit will move to Maintenance mode. \bigtriangleup + FART (5 sec): Press and hold the \bigtriangleup and FAR keys (in the addred) together for approx. 5 sec. The unit will move to Maintenance mode. \bigtriangleup + FART (5 sec): Press and hold the \bigtriangleup and FAR keys (in the addred) together for approx. 5 sec. The unit will move to Maintenance mode. \bigtriangleup + FART (5 sec): Press and hold the \bigtriangleup and FAR keys (in the addred) together for approx. 5 sec. The unit will move to Maintenance mode. \square + FART (5 sec): Press and hold the \circlearrowright and FAR keys (in the addred) together for approx. 5 sec. The unit will move to Maintenance mode. \square + FART (5 sec): Pression (1): Pressint (1): Pression (1):	↓ △ + MODE					
All and budgetyde $\wedge + FAST (S sec): Press and hold the \triangle and FAST keys (in that order) together for approx. 5 sec.The unit will move to Maintenance mode.Alarm setting mode\wedge + FAST (S sec): Press and hold the \triangle and FAST keys (in that order) together for approx. 5 sec.The unit will move to Maintenance mode.Alarm setting mode\wedge + \nabla + work (S sec)\triangle + \nabla + work (S sec)A + \nabla + work (S sec)Alarm setting mode\wedge + \nabla + work (S sec)A + \nabla + work (S sec)Maintenance mode.Auxiliary function setting mode\wedge + \nabla + work (S sec)A + \nabla + work (S sec)Maintenance mode.A = A value\nabla f : F A = 0Rescale (F A = 0)NOPFA = 0B = 0A = 0B = 0B = 0B = 0B = 0B = 0A = 0B = 0B = 0B = 0B = 0B = 0A = 0B = 0$	PV A4 value is					
The unit will move to Maintenance mode.The unit will move to Maintenance mode.Work (3 sec)Alarm setting mode 2Auxiliary function sett				-		
Alarm setting modeAuxiliary function setting mode 2Maintenance mode $R \uparrow A$ value $h \downarrow E h \land$ Input type $Q \downarrow$ wooci $h \downarrow E h \land$ Input type $R \uparrow A$ value $h \land E \land h \land$ Input type $R \uparrow A$ value $h \land E \land h \land$ Input type $R \uparrow A$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $R \downarrow A 2$ value $h \land E \land h \land$ Input type $h \land A 2$ value $h \land E \land h \land$ Input type $h \land A 2$ value $h \land E \land h \land$ Input type $h \land A 2$ value $h \land E \land h \land$ Input type $h \land A 2$ value $h \land h \land$						
Alarm setting modeMaintenance mode $R = 1$ A1 value $R = 1$ A1 value $R = 1$ Input type $R = 1$ Input type $R = 1$ A2 value $R = 1$ A4 value $R = 1$ Pace $R = 1$ <td>MODE</td> <td>$\bigtriangleup + \bigtriangledown + \boxtimes + MODE$</td> <td>(3 sec)</td> <td>▲ + FAST (5</td>	MODE	$ \bigtriangleup + \bigtriangledown + \boxtimes + MODE $	(3 sec)	▲ + FAST (5		
R_{1} A1 value R_{1} A1 output R_{1} A1 value R_{1}	Alarm setting mode	*	. ,			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				A A Output		
wooc $R2 = 1$ $A2$ value $\nabla_{\Gamma} L H$ Scaling high limit $L DEDD$ $R2 H Y$ $A2$ hysteresis $A2$ value $R2 = 1$ $A3$ value $D2 = 10^{10}$ $R2 H Y$ $A3$ hysteresis $A2$ value $R2 H Y$ $A3$ hysteresis $A2$ value $R2 = 1$ $R2 = 10^{10}$ $R2 $						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	RE A2 value	Scaling high limit	R2H4 A2 hysteresis	A BP A2 output		
woolwoolwoolwoolwool $R 3 H 2$ A3 value $R 4 H 2$ A4 value $R 1 F A 1 Vpe$ $R 2 F A 2 Vpe$ </td <td></td> <td></td> <td></td> <td>-</td>				-		
$R3 \pm i$ A3 value $r_{1}^{r}L_{i}^{r}$ Scaling low limit $R3HY$ A3 hysteresis $R3HY$ A4 value $r_{1}^{r}L_{i}^{r}L_{i}^{r}$ Scaling low limit $R3HY$ A3 hysteresis $R4H^{r}$ A4 value $r_{1}^{r}L_{i}^{r}L_{i}^{r}$ $R3HY$ A4 hysteresis $R4H^{r}$ A4 high limit $r_{2}^{r}D_{i}^{r}L_{i}^{r}$ $R^{r}H^{r}$ A4 output $R^{r}H^{r}$ A4 high limit $r_{2}^{r}D_{i}^{r}L_{i}^{r}$ $R^{r}H^{r}$ A4 output $R^{r}H^{r}$ A4 high limit $R^{r}H^{r}$ $R^{r}H^{r}$ A4 output $R^{r}H^{r}$ $R^{r}H^{r}H^{r}$ $R^{r}H^{r}H^{r}H^{r}H^{r}H^{r}H^{r}H^{r}H$						
Image: Sensor correction setting mode RL 2F A2 type RL 2F A2 type Image: Sensor correction setting mode RL 2F A2 type RL 2F A2 type Image: Sensor correction setting mode RL 2F A3 type RL 2F A2 type Image: Sensor correction setting mode RL 2F A3 type RL 2F A3 type Image: Sensor correction setting mode RL 2F A3 type RL 2F A3 type Image: Sensor correction setting mode RL 2F A3 type RL 2F A3 type Image: Sensor correction setting mode RL 2F A3 type RL 2F A3 type Image: Sensor correction setting mode RL 2F A4 type RL 2F A3 type Image: Sensor correction setting mode RL 2F A4 type RL 2F A4 type Image: Sensor correction setting mode RL 2F A2 type RL 2F A4 type Image: Sensor correction setting mode RL 2F A4 type R2 K 3 A2 HOLD Image: Sensor correction setting mode R2 K 3 A2 Energized R2 K 3 A2 HOLD Image: Sensor correctin setting mode R2 K 3 A2 Energized	A3 value	Scaling low limit	R3H4 A3 hysteresis			
wootwootwoot $R'' = 1$ A4 value $R'' = 1$ R				-		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	84 A4 value	Decimal point	8484 A4 hysteresis	A A4 output		
WODEWODEWODESelect on the set of th						
24/H A4 high limit value Fi L F PV filter time constant R 1/2/S A1 delay time Filer filter time constant wooe Wooe Wooe R/2/S A2 delay time Filer filter time constant Wooe wooe RL /F A1 type Wooe R/2/S A2 delay time Filer filter time constant Wooe wooe RL /F A1 type Wooe R/2/S A2 delay time Filer filter time constant Wooe wooe RL /F A2 type Wooe R/2/S A3 delay time Filer filter time conce Wooe wooe RL /F A2 type Wooe R/2/S A3 delay time Filer filter time conce R/2/S A3 delay time Filer filter time conce Filer filter time conce Wooe R/2/S A3 delay time Filer filter time conce Filer filter time conce Filer filter time conce Filer filter time conce R/2/S A3 delay time Filer filter time conce Filer filter filter time			·			
C value val						
Intermediation <th colsp<="" td=""><td></td><td></td><td></td><td></td></th>	<td></td> <td></td> <td></td> <td></td>					
urns to PV/SV Display Mode. $V = WODE$ $RL : IF = A1$ type $V = WODE$ $WODE$ $WODE$ $WODE$ $RL : IF = A2$ type $R : IF = A2$ type $RL : IF = A2$ type $R : IF = A3$ type $R : IF = A3$ type $WODE$ $WODE$ $WODE$ $R : IF = A3$ type $WODE$ $R : IF = A4$ type $R : IF = A4$						
Illary function setting mode wode wode wode act Set value lock R1 2F A2 type R3 dyg A3 delay time Abbreviations: wode wode wode wode wode R2 dyg A4 delay time wode wode wode wode R1 dyg A4 type Mode R2 dyg A4 delay time wode wode R1 dyg A4 type wode wode R2 dyg A2 HOLD wode R1 dyg A4 type wode F r l 1 Transmission R2 dyg A2 HOLD wode R2 dyg A4 type wode F r l 2 Transmission R2 dyg A2 HOLD wode R2 L ñ A1 Energized/ wode R2 dyg A2 HOLD Rask Rask A2 HOLD wode R2 L ñ A2 Energized/ wode F r l 2 Transmission Rask A3 HOLD Rask A3 HOLD Rask Rask A3 HOLD Rask Rask A4 HOLD Rask Rask A4 HOLD Rask Rask Rask Rask	urns to PV/SV Display Mode.	BL IE A1 type	REd A2 delay time	Trans. output		
$ \nabla + \text{MODE} (3 \text{ sec}) $ $ \text{Iiary function setting mode} 1 $ $ \text{RL } 2F \text{ A 2 type} $ $ A 2 bold is a character in the set $						
Back Set value lock Imode Mode Abbreviations: Imode RL 3F A3 type Imode Ad delay time Trans.: Transmissi Imode Imode Imode Imode Imode Trans.: Transmissi Imode Imode Imode Imode Imode Trans.: Transmissi Imode Imode Imode Imode Imode Imode Trans.: Transmission Imode Imode Imode Imode Imode Imode Imode Imode Imode	+ MODE (3 sec)	MODE				
ack Set value lock MODE MODE Abbreviations: mobe MODE MODE MODE Adbreviations: Transmission mobe MODE MODE MODE MODE Transmission mobe MODE MODE MODE MODE MODE MODE mobe MODE MODE MODE MODE MODE MODE MODE mobil Sensor Correction MODE MODE </td <td>kiliary function setting mode</td> <td>1 BL 2F A2 type</td> <td>RELY A3 delay time</td> <td>Returns to PV/SV Display</td>	kiliary function setting mode	1 BL 2F A2 type	RELY A3 delay time	Returns to PV/SV Display		
MODEMODEMODEAbbreviations: Trans.: Transmissi $mode$ <td></td> <td></td> <td></td> <td></td>						
$MODE$ Mid_{2} Mid_{3} Mid_{4} Mid_{3} Mid_{4} Mid_{4} Mid_{1} Sensor correction $MoDE$ Mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Sensor mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Sensor mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Mid_{2} Sensor mid_{2} </td <td></td> <td>MODE</td> <td>MODE</td> <td>Abbreviations:</td>		MODE	MODE	Abbreviations:		
hab Sensor correction coefficient MODE MODE hab Sensor correction MODE RL 4F A4 type hab Sensor correction MODE MODE MODE R /L A MODE MODE R /L A MODE R /L A A1 Energized/ MODE R /L A A1 Energized/ MODE R /L A A2 Energized MODE R /L A A3 Energized MODE R /L A A3 Energized MODE R /L A A4 Energized MODE R /L A A4 HOLD MODE R /L A A4 HOLD MODE R /L A A4 HOLD MODE MODE MODE R /L A MODE MODE R /L A A4 HOLD MODE	MODE	BL 3F A3 type	RYJY A4 delay time	Trans.: Transmissio		
IDD tion coefficient MODE MODE RL YF A4 type I T r H I Transmission J T ransmission DD correction MODE MODE R IL A MODE MODE MODE R IL A MODE R	Sensor correc-					
MODE RL YF A4 type F r H 1 Transmission DD Correction MODE MODE MODE MODE MODE R IL ñ A1 Energized/ MODE R2Hd A2 HOLD MODE MODE R IL ñ A1 Energized/ MODE R2Hd A2 HOLD MODE MODE R IL ñ A1 Energized/ Output 1 low limit MODE MODE MODE R2L ñ A2 Energized/ MODE R3Hd A3 HOLD MODE MODE R3L ñ A3 Energized/ I 3 TD Output 2 high limit MODE MODE R3L ñ A3 Energized/ I 3 TD Output 2 low limit MODE MODE R3L ñ A3 Energized/ I B L d F r L Z Transmission MODE R3L ñ A3 Energized/ I B L d F m L d Event input MODE MODE MODE MODE MODE MODE I D ID MODE R1H2 A4 Energized/ I B L d F manual d MODE I D ID MODE MODE MODE		MODE				
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Image: A Second Image: A Second <td></td> <td>R3L A A3 Eneraized/</td> <td>Transmission</td> <td>ਸ਼ਿਸ਼ਸ਼ A4 HOLD</td>		R3L A A3 Eneraized/	Transmission	ਸ਼ਿਸ਼ਸ਼ A4 HOLD		
95 speed MODE MODE MODE RHLA A4 Energized/ De-energized De-energized MODE MODE MODE MODE MODE RHLA A4 Energized/ MODE MODE MODE R IHY A1 hysteresis R IHg MODE MODE MODE MODE MODE MODE	- ニート Communication					
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□□□□□L De-energized H□L□L function □□□□E function WODE MODE MODE MODE MODE MODE □□□□L NODE IIIII A1 hysteresis IIIII A1 HOLD L□UI L□UI IIIII MODE MODE MODE MODE MODE IIIIII L□UI		84L a A4 Energized/	Hald Event input	Capi Square root		
B MODE MODE MODE MODE R HB A1 hysteresis T Stop bit I MODE MODE MODE MODE MODE R MODE R MODE R MODE MODE MODE MODE		_				
MODE ℜ IHH A1 hysteresis ℜ IHd A1 HOLD L ⊆ UΓ Low level cutoff T I MODE MODE MODE MODE MODE						
Stop bit Image: Image				Low level cutoff		
	- 5-5 Stop bit	-				





Returns to PV/SV Display Mode.

Returns to PV/SV Display Mode.

For any inquiries about this unit, please contact our agency or the vendor where you purchased the unit. Please provide your model and serial number.

- (e.g.)
- Model ----- JIR-301-M
- Serial number ----- No. 165F05000

In addition to the above, please let us know the details of the malfunction, or discrepancy, and the operating conditions.

SHINKO TECHNOS CO., LTD. OVERSEAS DIVISION

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