

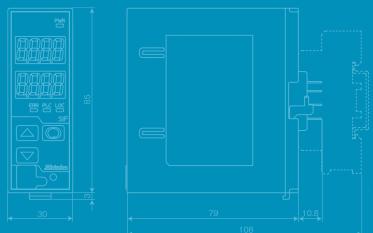
PLC Interface Unit SIF-600

# **4** Communication Methods

## The Best Choice Is Yours



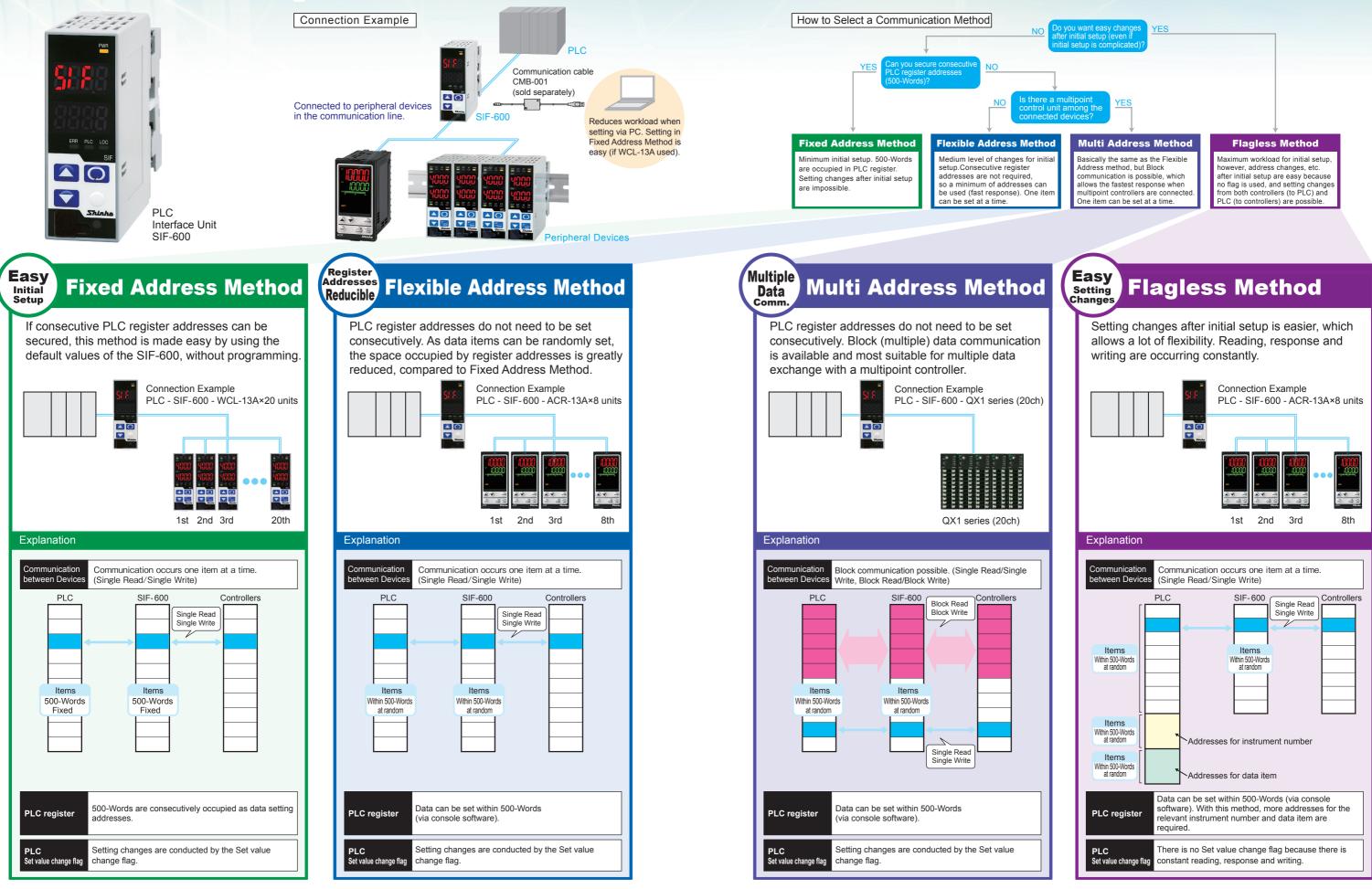
Enables communication between PLC and Peripheral Devices Connect up to 95 units



**Easy connection without programming** (Shinko WCL-13A series) Easy maintenance (plug-in socket)

### Interfaces between PLC and Peripheral Devices

## Select from **4 Communication Methods!**





### Standard Specifications

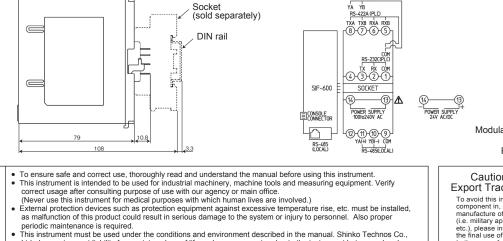
Name, Model	PLC interface unit, SIF-600			
Communication	Between SIF and PLC: RS-232C, RS-485, RS-422A (terminal connection),			
Line	Between SIF and Peripheral devices: RS-485 (Modular jack or terminal connection)			
Compatible PLC	Mitsubishi Electric Corp.: MELSEC Q series, QnA series (Q command only), MELSEC FX series (Q command only)			
	Omron Corp.: CJ/CS/CP series			
	Keyence Corp.: KV series			
	Yokogawa Electric Corp.: FA-M3 series			
	Fuji Electric Co., Ltd.: MICREX-SX series			
Communication	PLC communication function (Communicates with a PLC selected in the Parameter setting mode.)			
	Communication line: RS-232C/RS-485/RS-422A RS-422A: Built-in terminator (200Ω) between RXA and RXB			
	Communication method: Half-duplex communication start-stop synchronization			
	Communication speed: 9600bps, 19200bps, 38400bps (Default: 9600bps)			
	Data format: Start bit: 1 bit			
	Data length: 7 bits, 8 bits (Default: 7 bits)			
	Parity: No parity, Even, Odd (Default: Even)			
	Stop bit: 1 bit, 2 bits (Default: 1 bit)			
	Peripheral devices communication function			
	Communication line: RS-485			
	Communication method: Half-duplex communication start-stop synchronization			
	Communication speed: 9600bps, 19200bps, 38400bps (Default: 9600bps)			
	Data format: Start bit 1 bit			
	Data length: 7 bits, 8 bits (Default : 7 bits)			
	Stop bit: 1 bit, 2 bits (Default : 1 bit)			
	Connectable devices: Controllers with Shinko protocol, MODBUS protocol (ASCII, RTU)			
	Setting item data can be transmitted via the console software for initial setup. To connect a PC and SIF-600, use communication			
	cable (CMB-001, sold separately), and connect to the Console communication connector on the front panel of the SIF-600.			
	Compatible OS: Windows 7, Windows 8, Windows 10			
	Communication line: TTL level			
	Protocol: Shinko protocol			
	Communication method: Half-duplex communication start-stop synchronization			
	Communication speed: 19200bps (Fixed)			
Display	Upper display, Lower display : Red LED 4-digit, Character size: 7.4×4mm (H×W)			
Indicator	PWR indicator(Yellow): Lit when the power is supplied to the instrument.			
	ERR indicator (Red): Lit when communication errors have occurred.			
	PLC indicator (Yellow): Lit while communicating with the PLC [Serial communication TX output (transmitting)].			
	LOC indicator (Yellow): Lit while communicating with the peripheral devices [Serial communication TX output (transmitting)].			
Supply Voltage	100 to 240V AC 50/60Hz (Allowable fluctuation range: 85 to 264V AC),			
	24V AC/DC 50/60Hz (Allowable fluctuation range: 20 to 28V AC/DC) (Must be specified)			
Insulation Resistance				
	Power terminal – Communication (LOCAL) terminal 1.5kV AC for 1 minute			
Dielectric Strength	Power terminal – Communication (PLC) terminal 1.5kV AC for 1 minute			
Diolocato calorigat	Communication (PLC) terminal – Communication (LOCAL) terminal 1.5kV AC for 1 minute			
Ambient Temp, Humidity				
Power Consumption				
Mounting				
Dimensions, Weight				
Dimensions, weight	Display-OFF function: In the communication mode, displays are turned off if operation does not take place for the configured time.			
Attached Function				
A	Auto-light function: Automatically measures and controls brightness of the displays.			
Accessories Sold	Socket: ASK-001-1 (Finger-safe, Ring terminals unusable), ASK-002-1(Ring terminals usable)			
Separately	USB communication cable: CMB-001			

### External Dimensions (Scale : mm)



SAFETY

PRECAUTIONS



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.

This catalog is as of October 2020 and its contents are subject to change without notice.

Photos used in this catalog do not show unit in operating status.

If you have any inquiries, please consult us or our agency.

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### Terminal Arrangement

RS-485 (PLC)

L		
No.1	No.6	
No.1	COM	
No.2	NC	
No.3	YB(+)	
No.4	YA(-)	
No.5	NC	
No.6	COM	

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Modular jack pin arrangement (SIF-600 side) RS-485 (LOCAL)

### 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.