## **SPEC SHEET**

## **Plug-in Type Digital Indicating Conductivity Meter**

WIL-102- ECH (High Concentration)

- DIN rail mounted type
- Various settings, calibration operable via software communication (RS-485)
- 24 V power supply available (user-specified)
- Transmission output 1 and 2 (optional)



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	Input points	2					2 points				
							4-electrode condu				
l l	Input						(Temperature eler				
'	трас		EC				4-electrode condu				
								nent: Pt1000) (*1)			
(	Concentration			Н			High concentratio				
-   1	Power supply voltage						100 to 240 V AC (standard)				
L.	1						\ /				
(	Option					TA		•			
	opuon.										
							•				
(*1) This input temperature specification was specified at the time of ordering.											
(*:											
	When orde	ering 2	4 V AC	DC, e	enter 1	in Power s	supply voltage, after 'E	₌CH′.			
A	ccessories so	ld sep	arately:	Sock	et: AS	K-001-1 (F	inger-safe, Ring termi	nals unusable)			
	Input						Scale Range	Resolution			
		Conductivity				0.00 to	20.00 mS/cm	0.01 mS/cm			
								0.1 mS/cm			
							0.1 mS/cm				
	Conductivity							1 mS/cm			
						0.000	to 2.000 mS/cm	0.001 mS/cm			
								0.001 mS/cm			
								0.01 mS/cm			
								1 <sup>µ</sup> S/cm			
								1 µS/cm			
				Cell constant 1.0/cm				0.001 S/m			
			uctivity					0.01 S/m			
`			iddotivity					0.01 S/m			
				1.0/	OIII			0.1 S/m			
								1 mS/m			
						0.000	to 5.000 S/m	0.001 S/m			
						0.0 to	200.0 mS/m	0.1 mS/m			
								0.1 mS/m			
						0.0 to	20.0 g/L	0.1 g/L			
							<u> </u>	1 g/L			
							•	1 g/L			
						0 to 20	000 mg/L	1 mg/L			
						0 to 50	000 mg/L	1 mg/L			
	(* (* A	Option  (*1) This input (*2) Supply vol When orde Accessories so	Option  (*1) This input temper (*2) Supply voltage 11 When ordering 2 Accessories sold sep	Power supply voltage  Option  (*1) This input temperature s (*2) Supply voltage 100 to 24 When ordering 24 V AC Accessories sold separately:	Power supply voltage  Option  (*1) This input temperature specifi (*2) Supply voltage 100 to 240 V A When ordering 24 V AC/DC, Accessories sold separately: Sock  Input  Conductivity Conductivity con	Power supply voltage  (*1) This input temperature specification (*2) Supply voltage 100 to 240 V AC is st When ordering 24 V AC/DC, enter 1 Accessories sold separately: Socket: AS	Power supply voltage	Dower supply voltage			

			Input		Scale Range	Resolution					
				·	0.0 to 200.0 mS/cm	0.1 mS/cm					
					0.0 to 500.0 mS/cm	0.1 mS/cm					
				Cell constant 10.0/cm	0 to 2000 ms/cm	1 mS/cm					
		Conductivity			0.00 to 20.00 S/m	0.01 S/m					
			Conductivity		0.00 to 50.00 S/m	0.01 S/m					
			• • • • • • • • • • • • • • • • • • •		0.0 to 200.0 S/m	0.1 S/m					
					0 to 200 g/L	1 g/L					
					0 to 500 g/L	1 g/L					
					0 to 2000 g/L	1 g/L					
		-	Conveter	alinity.	0.00 to 4.00%						
			Seawater sa			0.01%					
			NaCl salinity		0.00 to 20.00%	0.01%					
			e (Pt100 or P		0.0 to 100.0°C	0.1℃					
					erature indication.						
Repeatability		Conductivity: ±0.5% of input span									
	Salinity conversion: ±1% of input span										
		DS conversio		of input spa							
Linearity		Conductivity: ±0.5% of input span									
	Salinity conversion: ±1% of input span										
	TDS conversion: ±1.5% of input span										
Conductivity	Conductivity Zero adjustment: Zero adjustment value range: -10% of input span to 10% of										
adjustment	input span										
	Conductivity Span adjustment: Span adjustment value range: 0.700 to 1.300										
Temperature	A	djustment ran	ige: -10.0 to 1	10.0℃							
adjustment											
Self-diagnosis	The CPU is monitored by a watchdog timer, and if an abnormal status occurs,										
_	the instrument is switched to warm-up status.										
Temperature com-	4-electrode conductivity sensor (Temperature element: Pt100)										
pensation element	4-electrode conductivity sensor (Temperature element: Pt1000)										
Temperature com-	0 to 100.0°C										
pensation range											
Ambient temperature	0 to 50°C (32 to 122°F)										
Ambient humidity	35 to 85 %RH (Non-condensing)										
Power supply	WIL-102-ECH: 100 to 240 V AC 50/60 Hz Allowable fluctuation range: 85 to 264 V AC										
(user-specified)	WIL-102-ECH: 100 to 240 V AC 50/60 Hz  WIL-102-ECH 1: 24 V AC/DC 50/60 Hz  Allowable fluctuation range: 85 to 264 V AC/DC										
Structure											
Otractare	DIN rail mounted										
		Case: Flame-resistant resin, Color: Light gray									
Drotoction atructure	Front panel: Membrane sheet										
Protection structure	Overvoltage category II, Pollution degree 2 (IEC61010-1)										
Safety standards	RoHS directive compliant										
Dimensions	W30 x H88 x D108 mm (including socket)										
Weight		pprox. 200 g									
Contact output	Relay contact 1a (Bit reading via 2 status flags for 1 output in Serial communication)										
(EVT option)	2-points Contact output, Control capacity: 3 A 250 V AC (Resistive load), 1 A 250 V AC										
	(Inductive load, $\cos\phi$ =0.4), Electrical life: 100,000 cycles, Control action: ON/OFF control										
Transmission					signal every input sampling	g period, outputs the					
output 1	value in current. (Factory default: Conductivity)										
(TA option)	If Transmission output 1 high limit and low limit are set to the same value, Transmission										
	output 1 will be fixed at 4 mA DC.  Resolution: 12000, Current: 4 to 20 mA DC (Load resistance: Max 550 $\Omega$ )										
	Output accuracy: Within ±0.3% of Transmission output 1 span										
	1-point Contact output: See 'Contact output (EVT option)'.										
Transmission	Converting pH or temperature to analog signal every input sampling period, outputs the										
output 2	value in current. (Factory default: Transmission output 1: Conductivity, Transmission output										
(TA2 option)	· · · · · · · · · · · · · · · · · · ·										
\ <del></del>	If Transmission output 2 high limit and low limit are set to the same value, Transmission										
	output 2 will be fixed at 4 mA DC.										
	Resolution: 12000, Current: 4 to 20 mA DC (Load resistance: Max 550 $\Omega$ )										
	Output accuracy: Within ±0.3% of Transmission output 2 span										
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