## SPEC SHEET

## Digital Indicating Resistivity Meter

AER-102- SE

- Various settings, calibration operable via communication (RS-485)
- •48x96mm square, Panel mounting type



Name	Digital indicating resistivity meter							
Model	AER-102-SE							
Measurement								
range	Inp	Scale Range			Resolution			
			0.000	to 0.200	MΩ•cm	0.001	MΩ•cm	
	Resistivity	Conductivity cell constant 0.01/cm	0.00	to 2.00	MΩ•cm	0.01	MΩ•cm	
			0.00	to 20.00	MΩ•cm	0.01	MΩ•cm	
			0.0	to 100.0	MΩ•cm	0.1	MΩ•cm	
			0.00	to 2.00	kΩ•m	0.01	kΩ•m	
			0.0	to 20.0	kΩ•m	0.1	kΩ•m	
			0.0	to 200.0	kΩ•m	0.1	kΩ•m	
			0	to 1000	kΩ•m	1	kΩ•m	
	Temperature	Pt100	0.0	to 100.0	$^{\circ}$	0.1	$^{\circ}\mathbb{C}$	
	Decimal point place is selectable for Temperature input.							
Repeatability	Within ±0.5% of full scale							
Linearity	Within ±0.5% of full scale							
Indicating	Temperature: ±1°C							
accuracy	Tomporataro. = 1 9							
Transmission	Converting resistivity or temperature to analog signal every input sampling, and							
output	outputs the value in current. (Default value: Resistivity)							
	Resolution : 1/20000							
	Current : 4 to 20mA DC (Load resistance: Max.550Ω)							
	Output accuracy: Within ±0.3% of Transmission output span							
	If Transmission output high limit and low limit are set to the same value, Transmission output low limit value will be outputted.							
Contact output	Relay contact : 1a (Bit reading via the status flag in Serial communication)							
	Control capacity: 3A 250V AC (Resistive load) 1A 250V AC (Inductive load, $\cos\phi$ =0.4)							
	Electrical life : 100,000 cycles							
	Output action : P control, ON/OFF control							
Cell constant	Adjustment range: 0.700 to 1.300							
correction value								
(Span) adjustment								
Temp. calibration	Calibration range: -10.0 to 10.0°C							
Self-diagnosis	The CPU is monitored by a watchdog timer, and if an abnormal status is found on the						ound on the CPU,	
	the instrument is		•					
Temp. compensation element	2-electrode resist	vity sensor (Te	mperatu	ıre elemen	t: Pt100)			
Temp. compensation range	0.0 to 100.0°C							
Ambient temp.	0 to 50°C							
Relative humidity	35 to 85%RH (No	n-condensing)						

Power supply	AER-102-SE : 100 to 240V AC 50/60Hz Allowable fluctuation range: 85 to 264V AC						
Structure	AER-102-SE-1: 24V AC/DC 50/60Hz Allowable fluctuation range: 20 to 28V AC/D Flush (Applicable panel thickness: 1 to 8mm)						
Oli dollaro	Case: Flame-resistant resin, Color: Black Front panel: Membrane sheet Drip-proof/Dust-proof: IP66 (for front panel only)						
Protection structure	Overvoltage category II, Pollution degree 2 (IEC61010-1)						
Safety standards	RoHS directive						
Dimensions	W48×H96×D110mm Case depth: 98.5mm (when mounted through a control panel)						
Dimensions (Scale: mm)	Gasket Screw type mounting bracket (sold separately)  Screw type mounting bracket (sold separately)  Terminal cover (sold separately)  Terminal cover (sold separately)  To Screw type mounting bracket (sold separately)  Terminal cover (sold separately)						
Terminal arrangement	GND: Ground POWER SUPPLY  24V ALTIX  100 to 240V AC or 24V AC/DC  SGB EVT1: EVT1 output  EVT3: EVT3 output  EVT3: EVT4 output  TRANSMIT OUTPUT  : Transmission output  TRANSMIT OUTPUT  : Transmission output  RS-485: Serial communication RS-485  1						