## **SPEC SHEET**

## **Digital Indicating pH Meter** AER-102-PH

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



Name	Digital indicating pH meter
Model	AER-102-PH
Measurement	pH value : 0.00 to 14.00pH Resolution: 0.01pH
range	Temperature : 0.0 to 100.0°C Resolution: 0.1°C
Repeatability	pH value : ±0.05pH
Linearity	pH value : ±0.05pH
Indicating	Temperature: ±1°C
accuracy	
Transmission	Converting pH or temperature to analog signal, and outputs the value in current.
output	(Default value: pH)
	However, if No Temperature Compensation is selected during the Electrode RTD selection,
	and if Temperature transmission output is selected, Transmission output low limit value will
	be outputted.
	If Transmission output high limit and low limit are set to the same value, Transmission output low limit value will be outputted.
	Resolution : 1/20000
	Output : TA: 4 to 20mA DC (Load resistance: Max 550 Ω)
	Output accuracy: Within ±0.3% of Transmission output span
Contact output	Relay contact : 1a
Comact output	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
Calibration	2-point Automatic or Manual calibration
function	2-point Automatic calibration: Automatic electrode quality evaluation
	Standard solution type: pH 2, 4, 7, 9, 10 (JIS)
	Combination of Standard solution: pH7 (1st solution) and any 2nd solution
	Manual calibration: 2 types of solution with a difference of 2 pH or more
	Tomporature colibration (1 point)
Self-diagnosis	Temperature calibration (1 point)  The CPU is monitored by a watchdog timer, and if an abnormal status is found on the
Jeli-diagriosis	CPU, the instrument is switched to warm-up status.
Temp. compensation	pH combination electrode sensor
element	(pH sensor: Based on JIS Z8802, Temperature element: Cu500/25℃ or Pt100)
Temp. compensation	0.0 to 100.0°C
range	0.0 to 100.0 0
Ambient temp.	0 to 50°C
Relative humidity	35 to 85%RH (Non-condensing)
Power supply	AER-102-PH : 100 to 240V AC 50/60Hz Allowable fluctuation range: 85 to 264V AC
	AER-102-PH 1: 24V AC/DC 50/60Hz Allowable fluctuation range: 20 to 28V AC/DC
Structure	Flush (Applicable panel thickness: 1 to 8mm)
	Case: Flame-resistant resin, Color: Black
	Front panel: Membrane sheet
	Drip-proof/Dust-proof: IP66 (for front panel only)

