

# PRODUCT DATA SHEET

## AMTAST

## EC900 Portable Multiparameter Meter



### EC900 Feature:

- Built-in microprocessor chips, intelligent functions such as automatic calibration, automatic temperature compensation, data storage, function set-up, self-diagnose information, automatic power-off and low voltage display.
- Multi-parameter meter, equipped with pH electrode, ORP electrode, conductivity electrode and dissolved oxygen electrode, automatic identification of electrode by meter.
- Automatic identification of 13 pH standard calibration solutions, three options of standard buffer solutions: Europe and America series, NIST series and China series.
- Able to set pH measurement modes of high purity water and pure water with ammonia.
- Automatic identification of 8 conductivity standard calibration solutions, two options of standard calibration solutions: Europe and America series and China series.
- Adopt advanced conductivity measurement technology, use conductivity electrode of constant  $K=1$ , only need one point calibration and meet the measurement precision requirement of  $0.5\mu\text{S}/\text{cm} \sim 200 \text{ mS}/\text{cm}$ .
- Ability to switch among conductivity, TDS, salinity and resistivity. Multinomial calculation for TDS and salinity to ensure the conversion precision of the full scale.
- Conductivity measurement mode has the function of non-linear temperature compensation for high purity water.
- Measurement mode of Dissolved oxygen has the function of automatic temperature compensation, automatic salinity compensation and manual air pressure compensation.
- New polarographic type dissolved oxygen electrode can measure temperature, salinity and dissolved oxygen simultaneously, equipped with special dissolved oxygen electrode calibration set, polarization only for 3~5 min.
- Meter meets IP57 waterproof rating, equipped with calibration solution and portable case.

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### EC900 Specification:

Category	Product Name	Basic features and specifications
PH	Measuring range	-2.00 ~ 19.99 pH
	Resolution	0.1/0.01 pH
	Accuracy	Meter:±0.01pH; Overall: ±0.02pH
	Input current	≤2×10 <sup>-12</sup> A
	Input impedance	≥1×10 <sup>12</sup> Ω
	Stability	±0.01 pH/3h
	Temp. compensation range	(0 ~ 100) °C(automatic)
ORP	Measuring range (mV/ORP/EH)	-1999mV ~ 0 ~ 1999mV
	Resolution	1mV
	Accuracy	Meter:±0.1% FS, Overall: ±15mV
Conductivity	Measuring range	Conductivity : (0.00~19.99) μS/cm (20.0~199.9) μS/cm (200~1999) μS/cm (2.00~19.99) mS/cm (20.0~199.9) mS/cm TDS: (0 ~ 100) g/L Salinity : (0 ~ 100) ppt Resistivity : (0 ~ 100) MΩ·cm
	Resolution	0.01/0.1/1μS/cm 0.01/0.1 mS/cm
	Accuracy	Meter:±1.0% FS, Overall:±1.5% FS
	Temp. compensation range	(0 ~ 50) °C(manual)
	Electrode constant	0.1 / 1 / 10 cm-1
	Benchmark temperature	25°C、20°C and 18°C
Dissolved Oxygen	Measuring range	(0 ~ 40.00) mg/L(ppm) (0 ~ 200.0) %
	Resolution	0.1/0.01 mg/L(ppm) 1/0.1 %
	Accuracy	Meter:±0.10 mg/L, Overall:±0.40 mg/L
	Response time	≤30 s (25°C, 90%response)
	Residual current	≤0.1 mg/L
	Temp. compensation range	(0 ~ 45) °C(automatic)
	Salinity compensation range	(0 ~ 45) ppt(automatic)
	Atmospheric pressure compensation range	(66 ~ 200) kPa (manual)
	Automatic calibration	Air saturated by water; water saturated by air
	Electrode type	Polarogram type
Other Technical Parameters	Data storage	200 groups
	Storage content	Series number, measuring value measuring unit and temperature,
	Power	Two AA batteries (1.5V x2)
	Size and weight	meter : (65×120×31)mm/180g ; Suitcase : (360×270×76)mm/1.6Kg
	Quality and safety certification	ISO9001:2000, CE and CMC
Working Condition	Environment temperature	5 ~ 35 °C (0.01grade)
	Environmental humidity	≤85%
	IP rating	IP57 Dustproof and waterproof

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