

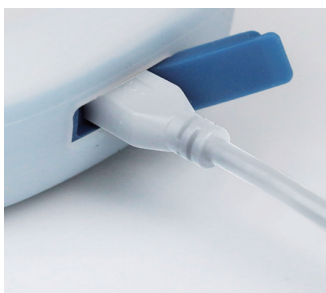
# E91 Multi-parameter Analyzer



**Large color touch screen**  
Easy operation and comfortable experience



**Tilting stand**  
Support better reading and operation



**Multiple external devices available**  
PC, printer



**Wristbands**  
Safety hold

## GENERAL FEATURES

- Color High contrast LCD touchscreen, 4.3 inches.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Automatic/Manual temperature compensation ensures accurate results.
- Auto-hold feature senses and locks the measurement endpoint.
- Data capacity of up to 500 sets for each parameter (GLP-compliant).
- Support for USB communication.
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP65 waterproof. The portable meter is suitable for fields measurements and out door measurements.

## pH

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB, USA.
- Automatic electrode diagnosis with pH slope and offset display.

## Ion

- 1-5 points calibration.
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, ppb, etc.
- Measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F<sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, I<sup>-</sup>, NO<sub>3</sub><sup>-</sup>, BF<sub>4</sub><sup>-</sup>, NH<sub>4</sub><sup>+</sup>, K<sup>+</sup>, Na<sup>+</sup>, Ca<sup>2+</sup>, Cu<sup>2+</sup>, Pb<sup>2+</sup>, Ag<sup>+</sup> and etc., user-defined method is supported.

## Conductivity

- 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor.
- Temperature compensation type (none, linear, pure water).

## DO

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation
- Manual Salinity Factor Correction
- Selectable pressure unit, including kPa, mbar, Torr, Atm.

Model	E91	
Parameters	pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal./DO Saturation)	
pH	Range	-2.00 to 20.00 pH
	Resolution	0.1, 0.01 pH
	Accuracy	±0.01 pH
	Calibration Points	Up to 5
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	NIST, GB, USA and DIN buffers
mV	Slope Limit	Yes
	Range	-2000.0 to 2000.0 mV
	Resolution	0.1 mV
pX	Accuracy	±0.3 mV or ±0.1%
	Range	-2.00 to 20.00 pX
	Resolution	0.1, 0.01 pX
ISE	Accuracy	±0.01 pX
	Calibration Points	Up to 5
	Range	1.000e-9 to 9.999e+9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb
	Resolution	Up to 4 significant digits
Conductivity	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.000 µS/cm to 1000 mS/cm
	Resolution	0.001 µS/cm minimum, various with range selection
	Accuracy	±1.0% FS
	Reference Temperature	20, 25 °C
Resistivity	Calibration Points	Up to 3
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm
	Range	5.00 Ω·cm~20.00 MΩ·cm
TDS	Resolution	0.01Ω·cm minimum,
	Accuracy	±1.0% FS
	Range	0.00 ppm~300 ppt
Salinity	Resolution	0.01mg/L minimum, 3 significant digits
	Accuracy	±1.0%FS
	Range	0.0~80.0 ppt
Dissolved Oxygen Concentration	Resolution	0.1ppt
	Accuracy	±2ppt
	Sensor Type	Polarographic
	Range	0.00 to 50.00 ppm
	Resolution	0.01mg/L
	Accuracy	±0.10ppm
	Calibration Points	Air-saturated water or zero point
Saturation	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
	Range	(0.0 to 300.0)%
Temperature	Resolution	0.10%
	Accuracy	±2.0%
	Range	-5 to 110 °C, 23.0 to 230 °F
	Unit	°C, °F
Measurement	Resolution	0.1
	Relative Accuracy	±0.2
	Reading Mode	Auto-Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
Data management	Temp. Compensation	ATC, MTC
	Data Storage	1000 Groups
Inputs	GLP Features	Yes
	pH Electrode	BNC(Q9)
	DO with Temp. Probe	4-pin aviation connector
Outputs	Conductivity with Temp. Probe	5-pin aviation connector
	USB	PC, printer
Display options	Backlight	Yes
	Auto Shutdown	300, 600, 1200, 1800, 3600sec., off
	IP Rating	IP65
	Date and Time	Yes
General	Power	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions	90 x 255 x 40 mm
	Weight	500g (1.1 lb)