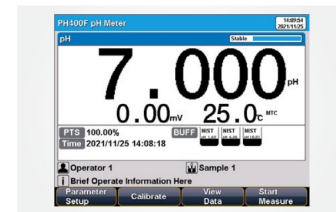


400F/300F Series Benchtop Meters



Automatic identification standard solution
Fast calibration and more accurate measurement



Smart UI design
Best user experience, highly efficient measurement.



Multiple external devices available
PC, printer

GENERAL FEATURES

- 300F Series Benchtop Meters: High resolution LCD display, 5.7 inches.
- 400F Series Benchtop Meters: Color high resolution LCD display, 5.7 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 storage 500 sets (GLP-compliant).
- Support for USB or RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.

pH

- 1-5 points calibration with standard recognition.
- PH400F: Selectable pH buffer groups, including NIST, DIN, GB, USA, MERK.
- PH300F: Selectable pH buffer groups, including NIST, DIN, GB.
- Automatic electrode diagnosis with pH slope and offset display.

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).

Ion

- 1-5 points calibration.
- Selectable measurement unit, including $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX , etc.
- I400F: Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- I300F: Measurement mode is Direct Reading mode.
- Over 10 methods are built-in, including F^- , Cl^- , Br^- , I^- , NO_3^- , BF_4^- , NH_4^+ , K^+ , Na^+ , Ca^{2+} , Cu^{2+} , Pb^{2+} , Ag^+ and etc.; user-defined method is supported.

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		M300F	M300F-A	PH300F	EC300F	I300F	PH400F	EC400F	I400F	DO400F
Parameters		pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal/ DO Saturation)	pH/EC/ISE/Temp. (mV/pX/Resistivity/ TDS/Sal.)	pH/Temp. (mV)	EC/Temp. (Resistivity/ TDS/Sal.)	pH/ISE/Temp. (mV/pX)	pH/Temp. (mV)	EC/Temp. (Resistivity/TDS/ Sal.)	pH/ISE/Temp. (mV/pX)	DO/Temp. (DO Saturation)
pH	Range	-2.00 to 20.00pH	•	•	/	•	-2.000 to 20.000 pH	/	•	/
	Resolution	0.1, 0.01 pH	•	•	/	•	0.1, 0.01, 0.001pH	/	•	/
	Accuracy	±0.01 pH	•	•	/	•	±0.002 pH	/	•	/
	Calibration Points	Up to 5	•	•	/	•	•	/	•	/
	Standard Customization	Yes	•	•	/	•	•	/	•	/
mV	Standard Recognition	NIST, GB and DIN buffers	•	•	/	•	NIST,GB,DIN,USA and MERK buffers	/	•	/
	Range	-2000.0 to 2000.0 mV	•	•	/	•	-2000.00 to 2000.00 mV	/	•	/
	Resolution	0.1 mV	•	•	/	•	0.1, 0.01 mV	/	•	/
pX	Accuracy	±0.3 mV or ±0.1 % of reading whichever is greater	•	•	/	•	±0.1 mV or ±0.03 % of reading whichever is greater	/	•	/
	Range	-2.00 to 20.00	•	/	/	•	/	/	-2.000 to 20.000 pX	/
	Resolution	0.1, 0.01 pX	•	/	/	•	/	/	0.1, 0.01, 0.001 pX	/
	Accuracy	±0.02 pX	•	/	/	•	/	/	±0.002 pX	/
ISE	Calibration Points	Up to 5	•	/	/	•	/	/	•	/
	Range	1E-9 to 9.999E9	•	/	/	•	/	/	•	/
	Unit	mol/L, mmol/L, g/L, mg/L, µg/L, ppm	•	/	/	•	/	/	•	/
	Resolution	Up to 4 significant digits	•	/	/	•	/	/	•	/
	Accuracy	±0.5 %	•	/	/	•	/	/	±0.3 %	/
Conductivity	Calibration Points	Up to 5	•	/	/	•	/	/	•	/
	Range	0.000 µS/cm to 1000 mS/cm	•	/	•	/	/	•	/	/
	Resolution	0.001 µS/cm minimum; changed with range	•	/	•	/	/	•	/	/
	Accuracy	±1.0 % FS	•	/	•	/	/	±0.5 % FS	/	/
	Reference Temperature	20, 25 °C	•	/	•	/	/	•	/	/
Resistivity	Calibration Points	Up to 3	•	/	•	/	/	•	/	/
	Standard Recognition	84µS/cm, 1413µS/cm; 12.88mS/cm	•	/	•	/	/	•	/	/
	Range	5.00Ω·cm ~ 20.00MΩ·cm	•	/	•	/	/	5.00Ω·cm~100.00MΩ·cm	/	/
TDS	Resolution	0.01Ω·cm minimum	•	/	•	/	/	•	/	/
	Accuracy	±1.0 % FS	•	/	•	/	/	±0.5 % FS	/	/
	Range	0.00mg/L ~ 300g/L	•	/	•	/	/	0.00mg/L~1000g/L	/	/
Salinity	Resolution	0.01mg/L minimum; changed with range	•	/	•	/	/	0.001mg/L minimum; changed with range	/	/
	Accuracy	±1.0% FS	•	/	•	/	/	±0.5 % FS	/	/
	Range	(0.00 ~ 8.00)%	•	/	•	/	/	•	/	/
Dissolved Oxygen Concentration	Resolution	0.01%	•	/	•	/	/	•	/	/
	Accuracy	±0.2%	•	/	•	/	/	±0.1%	/	/
	Sensor Type	Polarographic	/	/	/	/	/	/	/	•
	Range	0.00 to 20.00 mg/L	/	/	/	/	/	/	/	0.00 to 99.99mg/L
	Resolution	0.01mg/L	/	/	/	/	/	/	/	•
Saturation	Accuracy	±0.3mg/L	/	/	/	/	/	/	/	±0.3mg/L (0.00 to 20.00 mg/L) ±10% (20.00 to 99.99 mg/L)
	Calibration Points	Air-saturated water or zero point	/	/	/	/	/	/	/	•
	Barometric Compensation	yes	/	/	/	/	/	/	/	•
Temperature	Manual Salinity Factor Correction	yes	/	/	/	/	/	/	/	•
	Range	(0.0 to 200.0) %	/	/	/	/	/	/	/	(0.0 to 600.0) %
	Resolution	0.1%	/	/	/	/	/	/	/	•
Measurement	Accuracy	±10.0 %	/	/	/	/	/	/	/	•
	Range	-5 to 110 °C, 23 to 230 °F	•	•	•	•	-10 to 135 °C, 14 to 275 °F	•	•	•
	Unit	°C, °F	•	•	•	•	°C, °F	•	•	•
	Resolution	0.1	•	•	•	•	0.1	•	•	•
Data Management	Accuracy	±0.2	•	•	•	•	±0.1	•	•	•
	Reading Mode	AutoRead (Fast, Medium, Slow), Timed, Continuous	•	•	•	•	•	•	•	•
	Reading Prompts	Reading, Stable, Locked	•	•	•	•	•	•	•	•
Inputs	Temp. Compensation	ATC, MTC	•	•	•	•	•	•	•	•
	Data Storage	500 results each	•	•	•	•	•	•	•	•
Outputs	GLP Features	Yes	•	•	•	•	•	•	•	•
	pH Electrode	BNC(Q9)	•	•	/	•	•	/	•	/
	Temp./DO Probe	4-pin aviation connector	•	•	/	•	•	/	•	•
Display Options	Temp. /EC Probe	5-pin aviation connector	•	/	•	/	/	•	/	/
	USB	PC	•	•	•	•	•	•	•	•
General	RS 232	printer	•	•	•	•	•	•	•	•
	Backlight	Yes	•	•	•	•	•	•	•	•
	Auto Shut-down	1~60 min, off	•	•	•	•	•	•	•	•
General	IP Rating	IP54	•	•	•	•	•	•	•	•
	Date and Time	Yes	•	•	•	•	•	•	•	•
	Power	AC Adapter, 100-240 VAC input, DC9V output	•	•	•	•	•	•	•	•
General	Dimensions	242 x 195 x 68 mm	•	•	•	•	•	•	•	•
	Weight	900g (1.98 lb)	•	•	•	•	•	•	•	•

• INCLUDED, / NONE