Mi170

Autoranging EC/TDS/NaCl/Temperature Laboratory Bench Meter

3 Years warranty
LOG
RS232
USB
ATC
MTC
Software CD
Dual Display
Self diagnostics
GLP
CE

Mi170 measures 4 different parameters - EC, TDS (Total Dissolved Solids), percentage of NaCl and temperature in a variety of ranges.

The auto-ranging feature for EC and TDS measurements automatically sets the resolution suitable to the tested sample. All measurements can be temperature compensated at 20 or 25°C and the compensation coefficient is selectable by the user.

The automatic temperature compensation can also be disabled for measuring the actual conductivity value. The stability indicator on the LCD ensures accuracy.

Conductivity readings are performed with the 4-ring probe supplied with the meter. The GLP feature allows users to store and recall data on system status.

PC compatible through an RS232 or USB port.

Specifications		Mi170
Range	EC	0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm actual conductivity (uncompensated EC)*
	TDS	0.00 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm); 1.5 to 14.99 g/L (ppt); 15.0 to 100.0 g/L (ppt); up to 400.0 g/L actual TDS* (with 0.80 factor)
	NaCl	0.0 to 400.0%
	Temp	-20.0 to 120.0°C / -4.0 to 248.0°F
Resolution	EC	0.01 µS/cm; 0.1 µS/cm; 1.0 µS/cm; 0.01 mS/cm; 0.1 mS/cm
	TDS	0.01 mg/L; 0.1 mg/L; 1.0 mg/L; 0.01 g/L; 0.1 g/L
	NaCl	0.1%
	Temp	0.1°C / 0.1°F
Accuracy	EC	±1% of reading ±(0.05 µS/cm or 1 digit)
	TDS	±1% of reading ±(0.03 mg/L or 1 digit)
	NaCl	±1% of reading
	Temp	±0.4°C / ±0.8°F
Calibration	EC	1 point slope calibration with 6 memorized solutions (84.0 µS/cm, 1413 µS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm)
	NaCl	1 point, with MA9066 calibration solution
	Temp	2 points, 0 to 50°C / 32 to 12 °F
Temp. Compensation		automatic or manual, from -20.0 to 120.0°C / -4.0 to 248.0°F
Temp. Coefficient		selectable from 0.00 to 6.00%/°C (EC and TDS only)
Probe		MA814DB/1 4-ring probe with built-in temperature sensor (included)
TDS Factor		0.40 to 0.80 (default value is 0.50)
Logging		up to 50 records, LOG on demand or auto-logging
GLP		last EC, NaCl calibration data
PC Interface		RS232 / USB Opto-isolated
Environment		0 to 50°C / 32 to 122°F; max RH 95%
Power supply		12 VDC power adapter (included)
Dimensions		230 x 160 x 95 mm
Weight		0.9 kg

(*) Uncompensated conductivity (or TDS) is the conductivity (or TDS) value without temperature compensation.

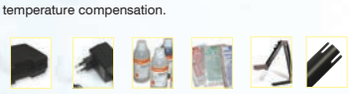
More accurate readings with the 4-RING MA814DB/1 EC/TDS/NaCl and Temperature probe!

Conductivity readings are performed by applying an alternate current to the 4-ring probe which creates a variable voltage depending on the conductivity.

Rear Connector Panel layout

Communication to the PC is done via opto-isolated USB and RS232 ports.

Accessories



MA814DB/1 EC/Temperature probe with DIN connector and 1 m cable
MA9060 12880 µS/cm calibration solution, 230 mL bottle
MA9061 1413 µS/cm calibration solution, 230 mL bottle
MA9063 84 µS/cm calibration solution, 230 mL bottle
MA9064 80000 µS/cm conductivity solution, 230 mL bottle
MA9065 111.8 mS/cm calibration solution, 230 mL bottle
MA9066 100% NaCl calibration solution, 230 mL bottle
MA9069 5000 µS/cm solution, 230 mL bottle
MA9310 12 VDC Adapter, 220 V
MA9311 12 VDC Adapter, 110 V
MA9315 Electrode holder
MA9350 RS232 connection cable with 2 meters cable
Mi5200 Application Software

Ordering Information

Mi170 is supplied complete with
- **MA814DB/1** EC/TDS/NaCl/Temperature Probe
- **MA9315** Electrode Holder
- **M10030** 12880 µS/cm calibration solution
- **M10031** 1413 µS/cm calibration solution
- **Mi5200** Application Software
- **MA9350** RS232 connection cable with 2 meters cable
- **MA9310** 12 VDC Adapter
- Instruction manual