ALARM	active when the measure is bellow/above than the
	setpoint, in according with
	the BELLOW/ABOVE switch
TEMP. COMPENSATION	Automatic, from 0 to 50°C
ENVIRONMENT	0 to 50°C, 95% RH max.
PROBE	MA812/2 (included)*
POWER SUPPLY	12 VDC adapter (included)
DIMENSIONS	148.5 x 82.5 x 32 mm
WEIGHT	180 g (meter only)

(*) To be replace by technical personnel only

CERTIFICATION

equipment.

Milwaukee Instruments conform to the CE European Directives.



RoHS

Disposal of Electrical & Electronic **Equipment.** Do not treat this product as household waste. Hand it over to the appropriate collection point for the recycling of electrical and electronic



Please note: proper product prevents potential negative consequences for human health and the environment. For detailed information, contact your local household waste disposal service or go to www.milwaukeeinstruments.com (USA & CAN) or www.milwaukeeinst.com.

RECOMMENDATION

Before using this product, make sure it is entirely suitable for your specific application and for the environment in which it is used. Any modification introduced by the user to the supplied equipment may compromise the meter's performance. For your and the meter's safety do not use or store the meter in hazardous environment. To avoid damage or burn, do not perform any measurement in microwave ovens.

WARRANTY

These instruments are warranted against defects in materials and manufacturing for a period of 2 years from the date of purchase. Probe is warranted for 6 months. This warranty is limited to repair or free of charge replacement if the instrument cannot be repaired. Damage due to accidents, misuse, tampering or lack of prescribed maintenance is not covered by warranty. If service is required, contact your local Milwaukee Instruments Technical Service. If the repair is not covered by the warranty, you will be notified of the charges incurred. When shipping any meter, make sure it is properly packaged for complete protection.

USER MANUAL

MC310, MC410, MC410A **PRO Digital EC Monitors**



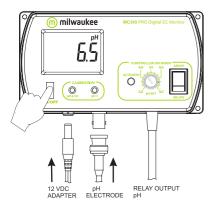
milwaukeeinstruments.com (USA & CAN) milwaukeeinst.com





SATISFACTION GUARANTEED

OPERATION

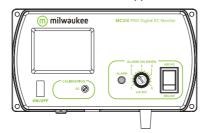


- Connect the supplied 12 VDC power adapter to the meter and to the mains.
- Make sure the meter has been calibrated before taking any measurements (see Calibration Procedure).
- Immerse the tip (4cm) of the Conductivity probe into the sample.
- Turn the instrument on by pressing the ON/OFF key.
- Wait for thermal equilibrium to be reached and the meter will start continuous monitoring.
- Set the BELLOW / ABOVE alarm activation switch in the desired position.
- A blinking alarm will indicate when the measured EC or TDS value is lower/higher than the setpoint (in accordance the BELLOW / ABOVE switch).

SETPOINT

- The setpoint can be selected by adjusting the central front knob to the desired value.
- The selectable range for MC310 is from 1.0 to 5.0 mS/cm.

The selectable range for **MC410** and for **MC410A** is from 700 to 1900 ppm.



CALIBRATION PROCEDURE

- Clean the probe with alcohol and let it dry (if a more thorough cleaning is required, brush the metal pins with fine sandpaper and then rinse with water).
- Open a sachet of suitable conductivity calibration solution and immerse the probe, making sure that metal pins are completely submerged.



Use M10031 (1413 μ S/cm) for MC310, M10442 (1500 ppm) for MC410 and M10032 (1382 ppm) for MC410A.

• Turn the meter on by pressing the ON/OFF key.

Wait until the reading stabilize for temperature variations, and then adjust the EC/TDS calibration trimmer on the front panel with the supplied screwdriver until the display shows:
 "1413" μS/cm for MC310, "1500" ppm for MC410 and "1380" ppm for MC410A.

The calibration is now complete and the meter is ready for use.

The instrument should be re-calibrated at least once a month, or when the probe is changed.

OPTIONAL ACCESSORIES

M10031B	1413 μS/cm cal. solution, 20 mL sachet (25 pcs)
M10039B	5.00 mS/cm cal. solution, 20 mL sachet (25 pcs)
M10442B	1500 ppm cal. solution, 20 mL sachet (25 pcs)
M10032B	1382 ppm cal. solution, 20 mL sachet (25 pcs)
MA812/2	Conductivity probe with 2 m cable

SPECIFICATIONS

RANGE	
MC310	0.0 to 10.0 mS/cm
MC410	0 to 1990 ppm
RESOLUTION	
MC310	0 to 1990 mg/L (ppm) / 1 mg/L
MC410, MC410A	10 ppm
ACCURACY (@25°C)	±2% Full Scale
SETPOINT	
MC310	1.0 to 5.0 mS/cm
MC410, MC410A	100 to 1900 ppm