SPECIFICATIONS

	pH	ORP
Range	0.0 to 14.0 pH	±1000 mV
Resolution	0.01 pH	1 mV
Accuracy (@25°C)	±0.2 pH	± 5 mV
Setpoint	4 to 8 pH	-200 to 600 mV
Electrode (included)	**MA911B/2**	**MA921B/2**
Alarm & Output Power Socket	active when measurement is higher/lower than the setpoint depending on user selection	
Environment	0 to 50°C, 95% RH max.	
Power Supply	12 VDC (included)	
Power Drivers	115VAC, 2A, 60Hz or 230VAC, 1A, 50Hz	
Dimensions	148.5 x 82.5 x 32 mm	
Weight	200 g (meter only)	

OPTIONAL ACCESSORIES

M10004B	pH 4.01 buffer solution, 20 ml sachet (25 pcs)
M10007B	pH 7.01 buffer solution, 20 ml sachet (25 pcs)
M10010B	pH 10.01 buffer solution, 20 ml sachet (25 pcs)
M10000B	Electrode rinse solution, 20 ml sachet (25 pcs)
MA9015	Electrode storage solution, 20 ml sachet (25 pcs)

CERTIFICATION

Milwaukee Instruments conform to the CE European Directives.

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 equipment.

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

This instrument is 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.

We reserve the right to modify the design, construction and appearance of our products without advance notice.

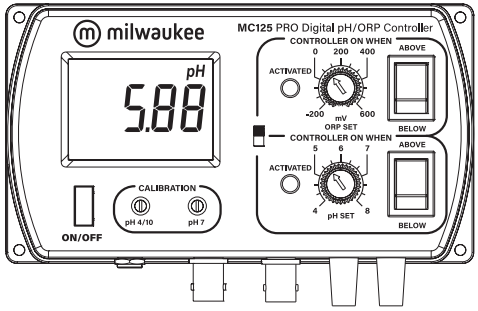
ISTMC125_07_20

SATISFACTION GUARANTEED

USER MANUAL

MC125

PRO Digital pH/ORP Controller



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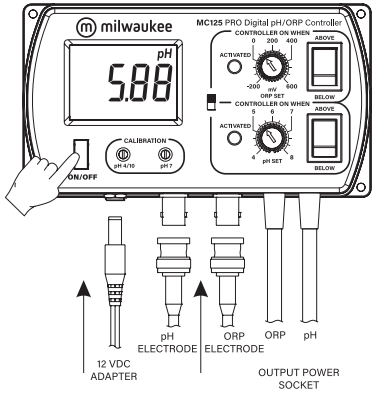
OPERATION

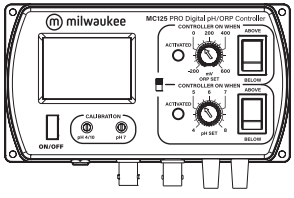


- Connect the supplied 12 VDC power adapter to the meter and to the mains line.
- Connect the pH and ORP electrode to the BNC socket of the meter.
- Always remove the electrode protective caps before taking any measurement. If the electrodes have been left dry, soak the tip (bottom 2.5 cm) in rinse solution (**M10000B**) for a few minutes to reactivate them.
- Make sure that the meter has been calibrated before taking any measurements (see Calibration Procedure).
- Immerse the tip (2.5 cm) of the electrodes into the samples.
- Turn the instrument on by pressing the ON/OFF key.
- Allow the reading to stabilize and the meter will start continuous monitoring.
- A blinking alarm LED will indicate when the measured pH value is higher or lower than the setpoint depending on user selection.
- When the alarm LED is blinking, there is power in the output power socket.

Note: *The output power contact has no protection fuse inside the meter. It is recommended to protected it outside, against failure.*

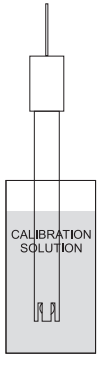
SETPOINT

- The setpoint can be selected by adjusting the knob to the desired value.
- The selectable range for **MC125** is from 4 to 8 for pH and from -200 to 600 mV for ORP.
- The nature of the setpoint can be selected by setting the proper switch to the desired position (ABOVE or BELOW).

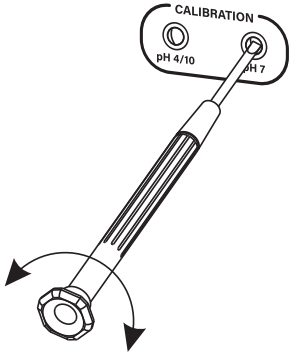
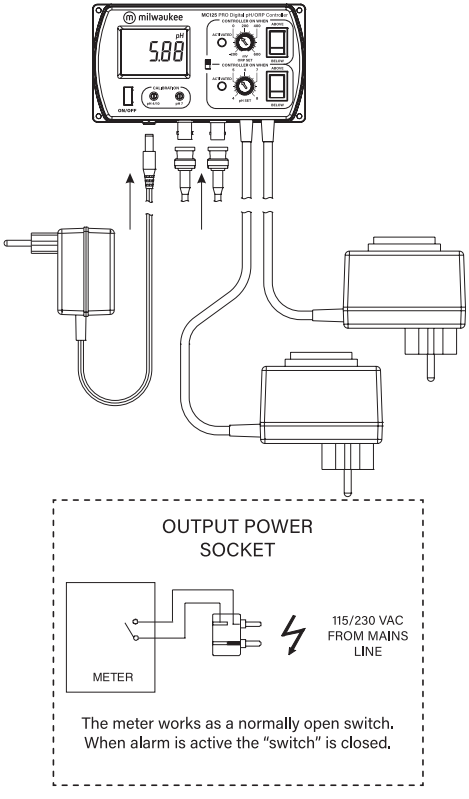


CALIBRATION PROCEDURE

- Remove the protective cap from the pH electrode.
- Immerse the electrode tip into a new sachet of pH 7 calibration solution and allow the reading to stabilize.



- Adjust the pH7 calibration trimmer (on the front) to display "7.00 pH".
- Open a new sachet of pH 4 calibration solution and use a small quantity to rinse the electrode.
- Immerse the electrode tip inside the pH 4 sachet and allow the reading to stabilize.
- Adjust the pH4/10 calibration trimmer (on the front) to display "4.00 pH".
- The calibration is now complete and the meter is ready to take measurements.
- It is suggested to recalibrate the meter at least once a month, after prolonged warehousing time and after pH electrode replacement.



INSTALLATION PROCEDURE