

PHMA - Loop Powered Compact Non-Isolated pH Transmitter



Compact size

Easy-to-use

4-20mA loop-powered

Adjustable zero and span

Fully encapsulated

The Model PHMA (encapsulated miniature transmitter) is a 2-wire, 4-20 mA pH transmitter featuring encapsulated construction, high performance and small size. It can be interfaced with many display and control devices requiring a 4-20 mA input.

The unit is compatible with all Sensorex conventional combination pH electrodes. It transforms the pH signal to a 4-20 mA current proportional to the pH level. This output may be transmitted over two wires to a control location. The same two wires provide power to the transmitter. Any 12 - 36 Volt D.C. power supply may be used. There are two adjustments on the transmitter to standardize probes for "SPAN" and "ZERO". The output can be monitored with a loop-powered meter, a loop resistor or even a multi-meter during the standardization procedure.

PHMA - LOOP POWERED COMPACT NON-ISOLATED pH TRANSMITTER

Specifications

Measuring Range	0-14 pH (4-20mA)
Input	pH electrode with BNC connector, Solution ground
Output	4-20mA (scalable to 0-14pH)
Dimensions	2.0"(51mm) H x 2.75"(70mm) W x 1.5"(38mm) D
Operating Temperature	-25 to 70 Degrees C
Temperature Compensation	Automatic with 3K Balco ATC (in electrode or cable)
Repeatability	±.01pH (±1mV)
Linearity	0.1% of Span
Accuracy	±.02pH (±2mV)
Power Requirement	12-36V DC
Reverse Polarity Protection	Temporary only using internal resistors
DC Filtration	Multi-pole noise filter

Ordering Information

Part Number	Description
PHMA	Loop-powered, non-isolated, blind 4-20mA pH transmitter (Power supply not included)



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