



Pathfinder
INSTRUMENTS

Data Sheet

Pathfinder Model EMIT-pH Transmitter

General Description

The **Model EMIT-PH** (encapsulated miniature isolated transmitter) is a 2-wire, 4-20 mA pH transmitter featuring input to output isolation, high performance and small size.

The transmitter accepts as its input any pH electrode via a BNC coaxial connector. It transforms the probe signal to a 4 to 20mA current proportional to the pH level. This output may be transmitted over two wires to a control location; the same 2 wires provide power to the transmitter. Any D.C. power supply from 12 to 36V may be used. There are two adjustments on the transmitter to standardize probes for "Slope" and "Cal". The output can be monitored with a loop powered meter, a loop resistor or a multimeter during the standardization procedure.

Temperature compensation is automatic with use of a platinum resistance temperature probe with an alpha of .00375ohms/ohms/^C and 1000ohms at 0^C. Manual temperature compensation is achieved with use of a fixed resistor on the transmitter terminal strip.

EMIT-PH Specifications

Input	0-14pH
Output	4-20mA
Power Supply	12 to 36VDC
Load Resistor	0 to 750 Ohms at 24VDC
Linearity	± .02 pH units
Input to Output Isolation	1000V RMS
Operating Temperature Range:	25 to +70^C
Temperature Compensation:	Manual or automatic
Reverse Polarity Protection:	Internal diode
Dimensions:	2" X 2" X 1.5"

1658 Ord Way, Oceanside, CA 92056

Ph: (760) 631 1141 / (800) 284 9698 / Fax: (760) 6311146

Email: sales@pathfinderinstruments.com / Website: www.pathfinderinstruments.com