

NEW! M400 pH/Multi-Parameter Transmitter (4-Wire) The Intelligent & Versatile Solution



Feature Overview

- Full ISM functionalities
- single-channel with multi-parameter ability
- Mixed mode input (ISM or conventional sensors)
- User interface via USB port
- 6 output relays
- 4 current outputs

Other Highlights

- “Plug and Measure” functionality
- CIP/SIP/Autoclaving counter
- Dynamic Lifetime Indication
- Adaptive Calibration Timer
- Quick set up mode for fast installation

The M400 transmitter series offers full ISM functionalities with “Plug and Measure” feature and advanced diagnostics. This multi-parameter transmitter covers pH/ORP, oxygen and conductivity measurements, depending on the type you choose. The M400 is a single-channel (mixed-mode input) unit and accepts either conventional (analog) sensors or ISM sensors. The transmitter M400 is the state-of-the-art transmitter for your demanding applications.

Specifications

Performance

Measurement parameters	pH, mV, and temperature
ISM	Plug & Measure Advanced Diagnostics (Lifetime Indicator, Adaptive Calibration Timer, CIP/SIP counter etc.)
pH, ORP input range	–1500 to 1500 mV
pH display range	– 1 to 15 pH
Resolution	0.01 pH; 1 mV
Relative accuracy	± 0.03 pH; ± 2 mV
Temperature input	Pt 1000, Pt100
Temperature compensation	Automatic/manual
Temperature measuring range	–30 to 150 °C (–22 to 302 °F)
Temperature resolution	0.1 °C/°F
Temperature measurement error	± 0.25 °C (± 0.45 °F)
Calibration	1 or 2 point calibration, process calibration

General

Power supply	100 to 240 V AC, or 20 to 30 V DC
Frequency for AC	50 to 60 Hz
Current output	4 × 0/4 to 20 mA, 22 mA alarm
Service interface	USB port
Display	Backlit LCD, 4 lines
Languages	8 (english, german, french, italian, spanish, portuguese*, russian* and japanese*)
Ambient temperature	–10 to 50 °C (14 to 122 °F)
Relative humidity	0 to 95% non-condensing
Enclosure rating	IP 65/NEMA 4X
Hazardous area classification	ATEX Zone 2 (pending), FM cFMus Cl.1 Div.2 (pending)
PID process controller	Yes
Hold input	Yes
Control input	Yes
Alarm contact	Yes (alarm delay 0 to 999 s)

* Available as of Q3/2008

► www.mt.com/M400

Ordering Information

Transmitters	Order Number
M400, Type 1	52 121 348
M400, Type 2	52 121 349
M400, Type 3	52 121 350
Bundle: M400, Type 1, including iSense Asset Suite pH	52 121 384

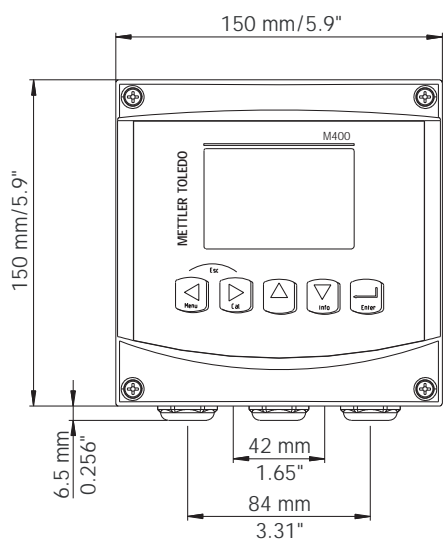
Installation Accessories	Order Number
Pipe mount kit	52 500 212
Panel mount kit	52 500 231
Protective hood	52 500 214

Parameter Fit Guide

Transmitters	Conventional Sensor	ISM Sensor
M400 Type 1	pH/ORP	pH/ORP
	Cond 2-E	Cond 2-E*
	Cond 4-E	Cond 4-E*
M400 Type 2	pH/ORP	pH/ORP
	Cond 2-E	Cond 2-E*
	Cond 4-E	Cond 4-E*
	DO ppm	DO ppm DO ppm optical**
M400 Type 3	pH/ORP	pH/ORP
	Cond 2-E	Cond 2-E*
	Cond 4-E	Cond 4-E*
	DO ppm	DO ppm
	DO ppb	DO ppm optical** DO ppb

Available as of:
 * Q1/2009
 ** Q3/2008

Front dimensions of M400



Side dimensions of M400

