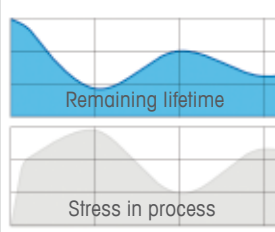


Intelligent Transmitter Series For Hazardous Area Applications



DLI, TTM, ACT



Outstanding Reliability and Process Safety

- ISM technology with sensor diagnostics
- Approvals for hazardous area applications
- Dependable usage in harsh environments thanks to rugged design

Predictive Maintenance

- Advanced ISM functionality provides predictive maintenance
- Online diagnostics
- Remote access to sensor diagnostic tools

Easy Handling of Measuring Loops

- Fast commissioning and error-free start-up due to Plug and Measure feature
- Pre-calibration of sensors with iSense Asset Suite software

Versatility

- Multi-parameter transmitter
- Mixed-mode input for use with analog or innovative digital ISM sensors
- Compatible with major asset management tools
- Remote and on-site access to sensor diagnostic tools



Reliable Solution with Remote Access to Sensor Diagnostics

The M400 2-wire multi-parameter transmitter, equipped with Intelligent Sensor Management (ISM) technology, provides highest reliability and process safety. Its rugged design and global hazardous area approvals allow use of the transmitter across the chemical and chempharma industries. Easiest handling and local or remote access via standard communication protocols to advanced sensor diagnostic tools leads to reduced operating costs and increased productivity.

The M400 transmitter is a single-channel unit for pH/ORP, oxygen, conductivity, dissolved carbon dioxide, inductive conductivity and ozone (M400PA only) measurement. Its mixed-mode input allows the use of analog or ISM sensors. This unique feature means the M400 offers a smooth technology transition from analog to digital sensors and provides a future oriented investment in the plant.

METTLER TOLEDO

Technical data of the M400 2-wire transmitter series

Measurement parameters	pH/ORP, pH/pNa, dissolved oxygen, gas phase oxygen, conductivity (2e/4e), dissolved carbon dioxide, inductive conductivity
ISM features	Plug and Measure, Dynamic Lifetime Indicator (DLI), Adaptive Calibration Timer (ACT), Time to Maintenance (TTM)
Housing material	Die cast aluminum
Enclosure	IP66, NEMA 4X
Hazardous area approvals	NEPSI, ATEX/IECEx Zone I, cFMus Cl I Div I
Ambient temperature range	-20 to 60 °C (-4 to 140 °F)
Display	Backlit LCD, 4 lines

4 to 20 mA with HART®

Supply voltage	14 to 30 VDC
Current outputs	2 × 4 to 20 mA (loop powered), galvanically isolated
Digital inputs	2*, galvanically isolated
Digital outputs	2 × open collectors
Analog inputs	1 × 4 to 20 mA (for pressure compensation)
Asset management tool compatibility	AMS versions 10 and 11, Simatic PDM version 6

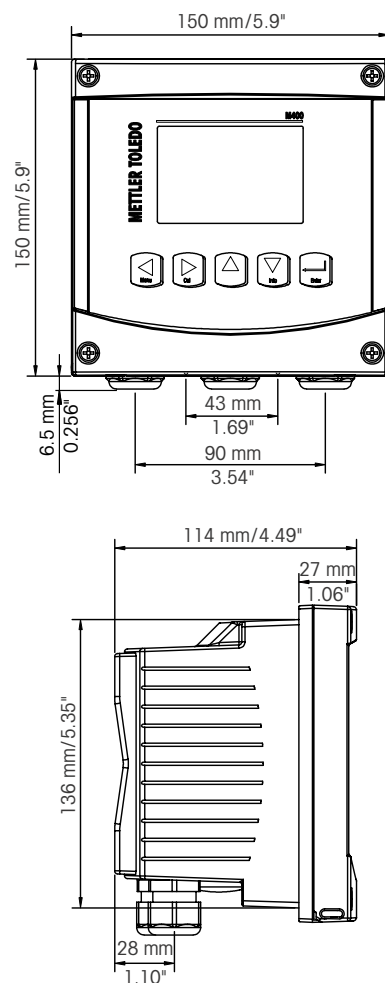
	FOUNDATION fieldbus™	PROFIBUS® PA
Physical interface	According to IEC 61158-2	According to IEC 61158-2
Profile	FF_H1	PA
ITK version/profile	6.0.1	3.02 PA
Supply voltage	Non hazardous area (Non-IS): 9 to 32 VDC Linear Barrier: 9 to 24 VDC FISCO: 9 to 17.5 VDC	
Current	22 mA	22 mA

* Model dependent

Ordering information

Designation	Order No.
M400/2H, 1-channel multi-parameter	30 025 514
M400/2XH, 1-channel multi-parameter	30 025 515
M400G/2XH, 1-channel multi-parameter	30 025 516
M400 2XH Cond Ind	30 256 307
M400FF, 1-channel multi-parameter	30 026 616
M400PA, 1-channel multi-parameter	30 026 617

► www.mt.com/m400-2wire



www.mt.com/pro

For more information

Sales and service:



Management System
certified according to
ISO 9001 / ISO 14001

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