Intelligent Transmitter Series For Hazardous Area Applications



DLI. TTM. ACT

Re	maining lif	etime
St	ress in pro	cess





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 (M400 PA 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.



pH/ORP, pH/pNa, dissolved oxygen, gas phase oxygen, conductivity (2e/4e), dissolved carbon dioxide, inductive conductivity	
Plug and Measure, Dynamic Lifetime Indicator (DLI), Adaptive Calibration Timer (ACT), Time to Maintenance (TTM)	
Die cast aluminum	
IP66, NEMA 4X	
NEPSI, ATEX/IECEx Zone1, cFMus Cl1 Div1	
-20 to 60 °C (-4 to 140 °F)	
Backlit LCD, 4 lines	

2*, galvanically isolated

FOUNDATION fieldbus™

According to IEC 61158-2

FF_H1

6.0.1

22 mA

2 × open collectors

 2×4 to 20 mA (loop powered), galvanically isolated

 1×4 to 20 mA (for pressure compensation)

AMS versions 10 and 11, Simatic PDM version 6

PROFIBUS® PA

PA

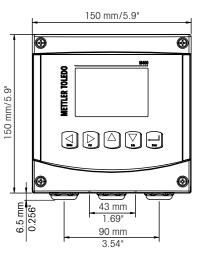
Non hazardous area (Non-IS): 9 to 32 VDC Linear Barrier: 9 to 24 VDC FISCO: 9 to 17.5 VDC

3.02 PA

22 mA

According to IEC 61158-2

14 to 30 VDC



114 mm/4.49" 27 mm 1.06"

Current

4 to 20 mA with HART®

Supply voltage

Current outputs

Digital inputs

Digital outputs

Analog inputs

Asset management tool compatibility

Physical interface

ITK version/profile

Supply voltage

Profile

* 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
M400 PA, 1-channel multi-parameter	30 026 617

www.mt.com/m400-2wire

www.mt.com/pro

For more information

CE

certified according to ISO 9001 / ISO 14001 Mettler-Toledo GmbH

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Sales and service: