Head Mount Transmitter

Small Footprint – Big Possibilities

ISM®

HART
COMMUNICATION PROTOCOL

Low installation costs

Rugged construction and compact design allow direct installation next to the process. M100 offers a versatile solution for both hazardous and non-hazardous area installations.

Predictive maintenance

Easiest handling and on-site or remote access over HART to advanced ISM predictive diagnostics tools leads to reduced maintenance costs and increased process uptime.

Simple Plug and Measure operation

With iSense, the key tool of ISM, sensors can be precalibrated via a PC or portable device then connected to the M100. Therefore, a user interface in the field is no longer necessary.

Versatility

– Multi-parameter transmitter
– Compatible with major asset management tools
– Small footprint for installation flexibility

The well-proven head mount transmitter concept for analytical parameters.

The M100 is the first transmitter for analytical measurements based on a compact, head mount design. With its approvals for hazardous area use the M100 head mount transmitter provides operating assurance even in challenging environments.

The M100 is a single-channel, multi-parameter transmitter compatible with ISM 1-wire sensors for measuring pH/ORP, pH/pNa, oxygen and conductivity.

Carrying the HART protocol the M100 allows for easy transmitter configuration and integration of sensor diagnostics tools such as the DLI (Dynamic Lifetime Indicator), ACT (Adaptive Calibration Timer), and TTM (Time To Maintenance) into asset management platforms.

ISM's Plug and Measure feature minimizes the risk of installation troubles and simplifies sensor handling.

METTLER TOLEDO

Key technical data for the M100 head mount transmitter
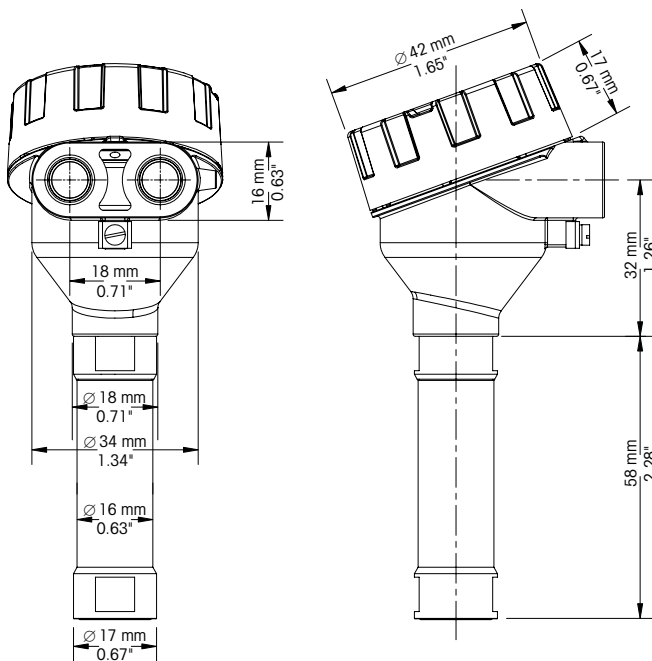
ISM features	Plug and Measure, DLI, ACT, TTM
Housing material	Upper part: Die cast aluminum; Lower part: Stainless steel
Enclosure	IP 66, NEMA 4X
Approvals	NEPSI, ATEX / IECEx Zone1, CSA Cl1 Div1
Supply voltage	14 − 30 VDC
Analog output	1 × 4 to 20 mA (loop powered), galvanically isolated
Communication	HART
Analog input	1 × 4 to 20 mA (for pressure compensation)
Digital input	1, switching transmitter in HOLD state

Sensor compatibility	ISM 1-wire pH, amperometric oxygen and conductivity sensors

Ordering information

Designation	Order No.
M100 2XH M20	30 026 578
M100 2XH NPT ¾"	30 246 352

▶ **www.mt.com/M100**

Front Dimensions of the M100   Side Dimensions of the M100

www.mt.com/pro

For more information