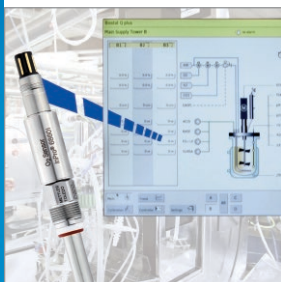


Sensor Mount Transmitter

Digital Integration on Biocontrollers



Simplified installation

The M100 SM is an easy to install, sensor mount transmitter for the analog or digital integration of ISM sensors into a biocontroller's programmable logic controller.



Predictive maintenance

iSense Mobile and Bluetooth communication provide access at any time to ISM's predictive maintenance diagnostics. Diagnostics and other sensor data can be sent as an email from a mobile device.



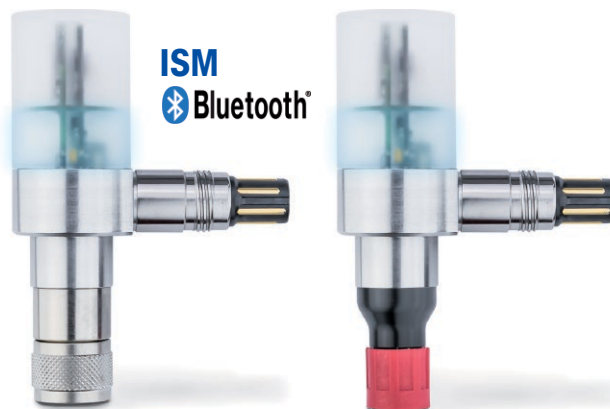
Error-free operation

Transmitter current outputs are configurable via PC or mobile device. Reconfiguring is not necessary after a sensor exchange, eliminating configuration errors.



Electronic data management

Configuration and calibration data are stored on the sensor. Wireless communication allows this information to be sent to iSense where it can be used for sensor management and compliance purposes.



Transmitter for ISM sensors For analog or digital biocontrollers

The M100 Sensor Mount (SM) is a single-channel transmitter. It allows the connection on biocontrollers of 1-wire ISM sensors for measuring pH, ampDO and CO₂ or ISM RS485 optical oxygen sensors. The M100 SM has a BT 4.0 interface which is compatible with the PC-based and mobile versions of iSense software.

Two independent interfaces are implemented: two configurable 4/20 mA analog outputs and one digital MODBUS RTU.

LEDs clearly indicate sensor status, alarms and warnings.

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

Key technical data for the M100 Sensor Mount Transmitter

ISM features	Plug and Measure, DLI, ACT, TTM
Enclosure	IP 67
Mounting	On head of 1-wire sensor: AK9 On head of RS485 sensor: VP8
Supply voltage	24 VDC
Analog output	Active 2 × 4 to 20 mA, galvanically isolated to passive DCS card
Communication	Wireless: BT 4.0 iSense PC-based and iSense mobile (Android, iOS) Wired: Digital interface RS485 MODBUS RTU
Sensor compatibility	ISM 1-wire pH, amperometric DO and carbon dioxide sensors. ISM RS485 optical DO sensors

Ordering information

M100 Sensor Mount Transmitter

Designation	Order No.
M100 SM 1-wire	30 365 366
M100 SM RS485	30 365 367

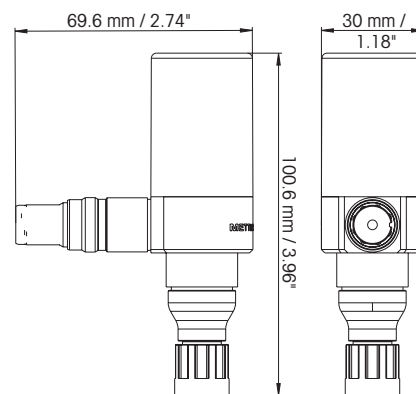
Accessories

Designation	Order No.
USB dongle ¹	30 371 387

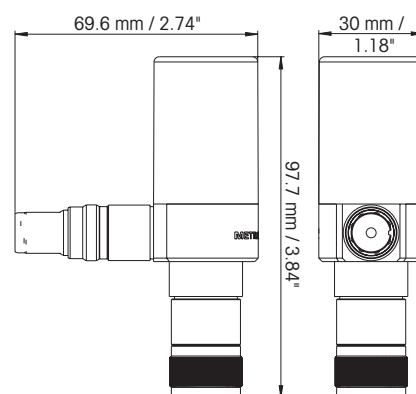
¹ To be used with PC-based iSense software



► www.mt.com/isense-mobile



Technical drawing of the M100SM 1-wire



Technical drawing of the M100SM RS485

www.mt.com/pro

For more information

Sales and service:



Management System
certified according to
ISO 9001 / ISO 14001

Mettler-Toledo GmbH

Process Analytics
8902 Urdorf, Switzerland
Phone +41 44 729 62 11
Fax +41 44 729 66 36

Subject to technical changes.
© 09/2016 Mettler-Toledo GmbH.
Printed in Switzerland. 30 371 869