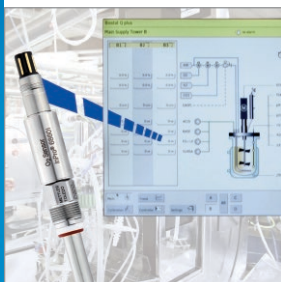# Sensor Mount Transmitter
Digital Integration on Biocontrollers

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.

ISM
Bluetooth®
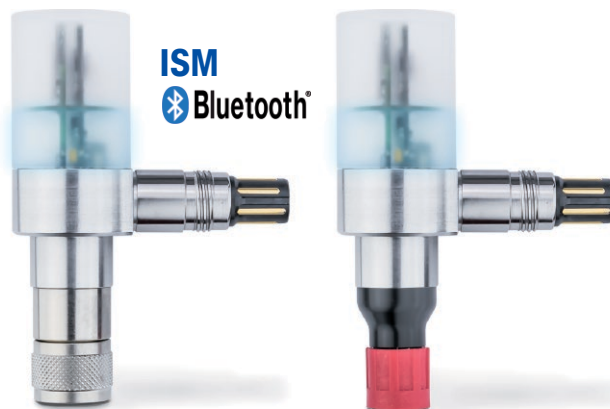
Transmitter for ISM sensors
For analog or digital biocontrollers

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 CO_2 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.

METTLER TOLEDO

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

Technical drawing of the M100 SM 1-wire

Ordering information

M100 Sensor Mount Transmitter

Designation	Order No.
M100 SM 1-wire	30 365 366
M100 SM RS 485	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
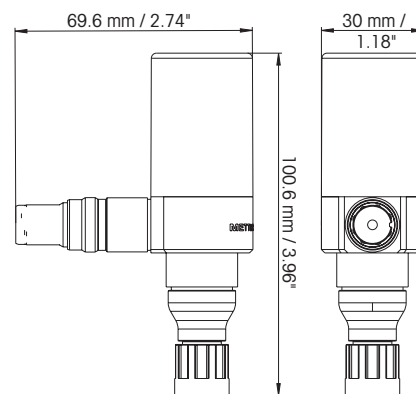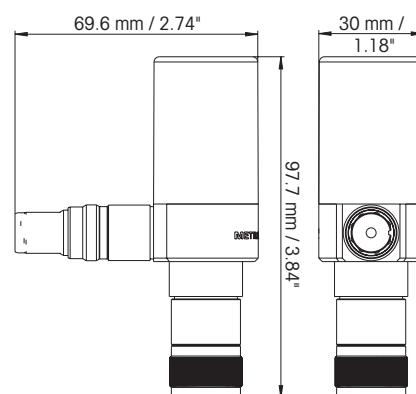
Technical drawing of the M100 SM RS 485

www.mt.com/pro

For more information