## **iSense** Maximum Performance of ISM Sensors



iSense offers a unique means to optimize the performance of pH electrodes, oxygen and carbon dioxide sensors for enhanced reliability and process safety. Simply connect your ISM sensor via USB or Bluetooth to your PC and get access to various intuitive analysis, calibration and documentation applications. Precalibrate your ISM sensor with the accuracy of lab conditions and assess the sensor state with real-time diagnostic information. This allows you to decide instantly whether to re-use or discard a sensor. Calibration information is collected, managed and analyzed efficiently and documented consistently to satisfy regulatory requirements.

21 CFR Part 11 & Annex 11 ready

iSense CFR is technically compliant with 21 CFR Part 11 and EudraLex Volume 4 Annex 11.

Specifications		
Performance		
Measurement parameters <b>pH</b>	all digital ISM sensors	
Oxygen	Oxygen all digital ISM sensors	
C02	InPro 5000 i	
pH calibration	1-point, 2-point, 3-point, process	
DO calibration for amp. sensors	1-point, process	
DO calibration for optical sensors	1-point, 2-point, scaling	
CO <sub>2</sub> (InPro 5000 i) calibration	1-point, 2-point, process	
M100SM settings	Yes	
Sensor field calibration dataset	Yes	
Sensor database	Yes	
Database backup	Yes	
Key performance indicators (KPI)	Yes	
Recommended PC requirements		
Processor	iCore™	
RAM	4 GB	
Screen resolution	$1280 \times 1024$ or higher	
Hard disk	250 M B available space	
Operating system	MS-Windows 7/8/8.10 (at least XP SP3 or later)	
Interface	USB and/or Bluetooth™ (depending on the	
	accessory)	

#### **Features Overview**

- Automatic PDF protocols with sensor registration/calibration/adjustments/deactivation
- Protocols of field calibration
- Full sensor history
- Database export for further analysis

### **Other Highlights**

- Intuitive Windows<sup>™</sup> interface
- Early detection of worn-out sensors
- Comprehensive, at a glance sensor status analysis

#### www.mt.com/iSense

#### **Ordering Information**

Description	Order Number
iSense	30 130 614
iSense CFR	30 283 620
Accessories	Order Number
iLink Multi (with integrated barometer and hygrometer)	30 130 631
iLink Multi Cable/Set oDO (RS485) (required cable set for optical oxygen sensors connecting with iLink Multi)	30 355 582
AK9/1m/BNC-50 (required cable set for pH, CO2 and amperometric oxygen sensors connecting with iLink Multi)	59 902 168
CalBox with temperature sensor for iLink Multi	52 300 400
iSense BT Dongle (wireless connection to M100 SM and J-Box BT)	30 371 387
Cable DS AK9-RJ12 (connects 1-wire sensors to iSense)	52 300 383
iLink RS485 VP	30 014 134
iLink RS485	52 300 399

iLink 1-wire BT (Bluetooth dongle with rechargeable battery)



iLink Multi is a universal device for connecting digital ISM sensors (1-wire; RS485) to a PC/laptop running iSense software. When calibrating an optical DO sensor with the iLink Multi, calibration parameters are captured automatically using the built-in, physical parameter sensors.

Did You Know iSense Mobile allows you to check sensor status or conduct calibrations from the convenience of your phone. Download is free at Google Play or iTunes.

30 126 791

www.mt.com/ism-accessories

Learn more about iSense, iSense Mobile and its accessories.

# Verification Kits Simulating Sensors and Validating Transmitters





The pH, O<sub>2</sub> and the CO<sub>2</sub> Verification Kits are sets of five different service tools that allow the simulation of reading values of pH, O<sub>2</sub> and the CO<sub>2</sub> ISM sensors with predefined measuring values and errors (not changeable by the user). Each tool corresponds to a METTLER TOLEDO ISM sensor and delivers a complete set of data information. They can also be used for control of loop and transmitter settings, as control of the transmitter's temperature compensation and general troubleshooting. Each verification kit is provided with a certificate.

Specifications	
ISM Verification Kits	
ISM Simulator pH Kit	pH 4, pH 7, toggle, ERR1, ERR2
ISM Simulator O <sub>2</sub>	
(InPro 6850i) Kit	Zero, Air, toggle, ERR1, ERR2
ISM Simulator O <sub>2</sub> ppb	
(InPro 6900i/InPro 6950i) Kit	Zero, Air, toggle, ERR1, ERR2
ISM Simulator CO <sub>2</sub> (InPro 5000i) Kit	15 mbar, 950mbar, toggle, ERR1, ERR2
Optical O2 (InPro 6860 i, InPro 6870 i,	
InPro 6960 i, InPro 6970 i, THO ODO)	
Simulator	Zero, Air 1, Air 2, toggle, ERR1, ERR2

#### pH Analog Verification Kits

pH Simulator 112	рН 4, рН 7, рН 9
VP Simulator	20 °C (Pt100 or Pt1000), 50 °C (Pt100 or Pt1000)

#### **Certificates and Approvals**

ISM pH	IECEx/ATEX Ex ia IIC T6/T5/T4/T3 Ga/Gb
	FM: IS/I, II, III/1/ABCDEFG/T6
Amperometric O <sub>2</sub>	IECEx/ATEX Ex ia IIC T6/T5/T4/T3 Ga/Gb
	IECEx/ATEX Ex ia IIIC T69°C/T81°C/T109°C/
	T161°C Da/Db
	FM: IS/I, II, III/1/ABCDEFG/T6

### **Features Overview**

- Tool for verification of a measuring system
- Service tool for quick checks
- Control of transmitter settings
- Troubleshooting

www.mt.com/ISM

## **Ordering Information**

ISM Verification Kits	Order Number
ISM Simulator pH Kit	52 300 410
ISM Simulator O <sub>2</sub> (InPro 6850 i) Kit	52 300 416
ISM Simulator O <sub>2</sub> ppb (InPro 6900 i) Kit	52 300 422
ISM Simulator O <sub>2</sub> Trace (InPro 6950i) Kit	52 300 428
ISM Simulator CO <sub>2</sub> (InPro 5000 i) Kit	30 031 035
Optical O2 (InPro 6860 i, InPro 6870 i, InPro 6960 i, InPro 6970 i, THO ODO) Simulator	30 404 694
pH Analog Verification Kits	Order Number

### pH Analog Verification Kits

pH Simulator 112 **VP** Simulator

#### **Did You Know**

The ISM pH, oxygen and CO2 service tools are unique products that can control and verify loop and transmitter settings. The simulators generate a comprehensive dataset of non-modifiable ISM parameters.

59 906 431 52 120 939



Optical O2 Simulator



pH Analog Verification Kits: Combining the pH simulator 112 ① with the VP simulator ② both pH and Temperature signals can be simulated to check the automatic temperature compensation capability of the transmitter.