

msBox

Universal transmitter

Online measurement of: CO_2 / H_2S / H_2 / H_2O_2 / O_2 / O_3 parameters



Plug-and-play

The msBox allows integration of analog output sensors requiring temperature compensation*.

The system powers the sensors, collects raw data and performs compensation calculations. Then, values are recorded continuously and displayed on the screen. Each data can be transmitted in 4-20 mA analog format.

The AquaMS configuration allows easy and user-friendly access to calculation formulas and sensors calibration data.

Data logger and power supplies are mounted in an IP65 Fibox box equipped with wall brackets.

* Supplied with a 3-wire Pt100 and 10-meter cable length.

Advantages

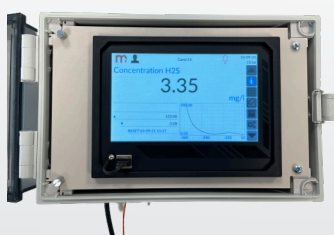
- Easy integration of Shallow Water and CO_2 probes
- Integrated calculation formulas
- Temperature probe included
- Continuous recording
- Transmission of measurement data in 4-20 mA format
- Display of measurements on the screen (numerical and graphical)
- Outdoor wall installation possible

Choose your configuration

We configure the msBox according to the measures you want. The system is delivered ready to use, calculation formulas and calibration data are recorded, display and outputs are programmed and connection cables connected.

Main configurations requested :

- msBox H_2S
- msBox CO_2
- msBox H_2
- msBox H_2S + CO_2
- Others on request



Once the sensors are installed, the measurements start as soon as the msBox is powered on.

The temperature compensations are done automatically, the data are displayed on the screen and the analog outputs are activated.

When a micro sensor needs to be replaced, program updates with new calibration and compensation data are provided with the new micro sensor. The update is done by a USB key to be inserted on front panel.

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Technical specifications

Power supply	100 ... 240 VAC (50 ... 60 Hz)
Consumption	Standard : 2W, max : 48 W
Inputs (sensors)	3 x universal (4 ... 20 mA, 0 ... 10 VDC, resistance 0 ... 4000 Ohms, thermocouple) as standard, other digital and analog inputs are optional
Résolution	0,001 mA, 0,0001 VCC, 0,05 Ohm
Analog outputs	3 x configurable analog outputs 0 ... 20 mA / 4 ... 20 mA / 0 ... 24 mA
Max. load	500 Ohms
Terminal blocks	Max. 1,5 mm ² 16 AWG
Ethernet interface	10/100 base-T Ethernet
Ethernet connector	RJ45
Ethernet protocol	Server www, ModBus TCP client / server
USB interface	2 x USB 2.0 Type A
Relay outputs (option)	6 x 24 VAC 0.5 A or 36 VDC 0.5 A / Max. 42 VAC or 60 VDC
Terminal blocks	Max. 1,5 mm ² Max. 14 AWG
Display	7 "resistive touch screen (800 x 480 pixels) 152 mm x 91 mm
Status	2 red / blue operation LED
Memory	Flash de 2 GB
Data export	Via USB 2.0 socket type A
Operating temperature	0 ... +50 °C
Storage temperature	-30 ... +70 °C
Max air humidity in use	95%
Protection type	IP65
Dimensions	298 x 228 x 182 mm
Weight	2,6 kg
Material	Polycarbonate