TriBox 3 Controller

Digital sensors



Advantages

- Open communication Mobdus / RTU
- Access to 6 measurements in 4 ... 20 mA analog format
- Suitable for all TriOS digital sensors
- Recording of measurement data and service log
- Wifi connection for interface access on web browser
- TCP / IP interface
- \cdot Large capacitive touch screen
- \cdot Outdoor installation allowed
- $\boldsymbol{\cdot}$ Integrated solenoid valve for compressed air network

4-channel display and control unit for digital sensors

Digital controller equipped with 4 RS232 or RS485 type sensor interfaces, allowing the supply of probes, reception, display (digital or graphic) and recording of measurement data.

The TriBox 3 has Modbus / RTU protocol for communication with sensors and also responds to Modbus / TCP commands. It thus offers several communication interfaces such as an IEEE 802.3 Ethernet connection, WiFi 802.11 b / g / n, a USB port, a programmable relay output and six 4 ... 20 mA analog outputs.

An integrated solenoid valve can be used to control a compressed air injection for automatic cleaning of optical sensors.

The TriBox 3 is compatible with all TriOS digital sensors, the measurement and configuration data of the sensors may be accessed on the screen and from a web browser once connected to the controller via WiFi or Ethernet.

It is suitable for all applications in the fields of environmental monitoring, drinking water production and wastewater treatment plants as well as many other fields, with its low power consumption, aluminum housing and multiple interfaces.



The TriBox 3 is equipped with four sensor inputs with M12 locking screw connectors.

The analog outputs and relay contact are connected by the cable glands providing access to the connection terminal blocks inside the controller. A compressed air circuit can be connected to the internal solenoid valve, directly by connecting the inlet / outlet hoses to the quick connect adapter under the TriBox.

The display of the different measurements is fully configurable by the user.



TriBox 3 Controller

Technical specifications

Input voltages	100 240 VAC (50 60 Hz), 10 15 VDC	
Consumption	Standard : 6W, max : 50 W	
Sensor connector	4 x M12 industrial connectors with locking screw	VS
Standard	RS-232, RS-485	
Protocol	Modbus-RTU, TriOS protocol	
RTU server	Yes (on each sensor)	
RTU Client	Yes (on each sensor)	
RTU settings	Adjustable (default: 9600-8-N-1)	
No settings		
Standard	Ethernet, WiFi IEEE 802.11b/g/n	
Connection	1 x RJ-45, built-in WiFi antenna	
Protocol	TCI/IP, Modbus TCP, VNC	
Web interface	Yes	
USB	USB 2.0, USB A socket	
Analog output	6 x configurable analog outputs 4 20 mA	
Load	Max. 500 Ohms	
Connection terminals	1,5 mm2	16 AWG
Relay specs	1 x changeover relay contact (SPDT) / 250 VAC,	
Connection terminals	Max. 2,5 mm ²	Max. 14 AWG
Valve	Integrated with safety rings for front connection	
Valve	integrated with safety higs for none connection	
Screen	7 'capacitive touch (800 x 480 pixels)	
Status	5 x status LED on the front	
Data storage	2 GB microSD card, direct connection with USB	stick possible
Data export	WiFi (compressed .tar file) / Ethernet / USB 2.0	
Operating temperature	-10 +50 ° C (with pre-installed cable +5 +	40 ° C)
Storage temperature	-20 +70 °C	
Max humidity air in use	95%	
Туре	IP65	
Dimensions	280 x 170 x 94 mm	
Weight	3,7 kg	
Materials	э, тку Die-cast aluminum alloy housing, acrylic glass (F	MMA) front nanel
matchais	Die Cast aluminum anoy housing, acrylic glass (r	mmay none panel

Accessories: Junction box

This adapter equipped with 5 M12 connectors allows TriBox controllers to control even more sensors.



AirShot

Mini compressed air compressor for cleaning optical sensors. Operates with air pulses against continuous air flow, allowing a compact design. The system drains the internal air circuit between two

pulses to prevent formation of frost in winter in hoses and solenoid valve.



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