

TriBox mini

TRANSMITTER

For TriOS digital sensors •

Control unit for digital sensors

2 channels digital transmitter, with 2 inputs for digital sensors and 2 analog outputs 4 ... 20 mA.

The TriBox mini is compatible with all TriOS digital sensors, measurement data and sensor parameter information can be accessed via a web browser-accessible interface with Wi-Fi or Ethernet connection.

This module allows the triggering of a relay output when exceeding the programmed threshold and also makes it possible to control a compressed air injection for the automatic cleaning of the optical sensors.



Advantages

- Modbus RTU communication possible
- Suitable for all digital TriOS sensors
- Integrated data storage
- Wifi connection for web browser interface access
- Capacitive touchscreen
- Outdoor installation possible
- G2 interface



The TriBox mini is equipped with two sensor inputs with MC12 connectors.

The analog outputs, relays and compressor control are connected via the two cable glands (on the left). The power cable is already mounted at the bottom right.

- Single TriBox connections -

Technical specifications

Power supply

Input voltages 100 ... 240 VAC (50 ... 60 Hz), 10 ...15 VCC

Consumption Standard : 2W, max : 40 W

Sensor Interfaces

Connection 2 x industrial connectors M12 for TriOS sensors

Standard RS-232, RS-485

Protocol Modbus-RTU, Protocol TriOS

Modbus RTU

RTU server No

RTU client Yes (on both sensors)

Settings Adjustable (default: 9600-8-N-1)

Network

Standard	TriBox mini
	WiFi IEEE 802.11b/g/n
	TriBox mini NET
	Ethernet IEEE 802.3i
Connexion	TriBox mini
	Built-in WiFi antenna
	TriBox mini NET
	COM2 sensor interface (right)
Protocol	TCI/IP
Web interface	Yes
USB	No
Analog interface	
Analog output	2 x sorties analogique configurable 4 ... 20 mA
Charge	Max. 500 Ohms
Terminal blocks	1,5 mm ² 16 AWG
Relay Outputs	
Characteristics	1 x relay contact (SPDT) / 250 VAC, 2 A / 30 VDC, 2 A
Terminal blocks	Max. 2,5 mm ² Max. 14 AWG
Cleaning by compressed air injection	
Valve	Optional: external connection possible controlled by the transmitter
Display	
Screen	3.5 'capacitive touch (320 x 240 pixels)
Status	5 x LED status on the front
Memory	
Intern	MicroSD card of 2 GB
Exporting data	Via WiFi (compressed .tar file) / via Ethernet
Installation	
Operating temperature	-10 ... +50 °C (with pre-installed cable +5 ... +40 °C)
Storage temperature	-20 ... +70 °C
Max humidity air in use	95%
Protection sign	IP65
Dimensions	150 x 139 x 80 mm
Weight	1,6 kg
Materials	Body in die-cast aluminum alloy, acrylic glass front panel