

TriBox mini

20C000000

2-channel digital controller

Digital 2-channel controller with 2 digital sensor inputs and 2 x 4...20 mA outputs. The digital 2-channel controller is compatible with all digital TriOS sensors. All measurement data and diagnostic data can be read out via a built-in web browser.

Benefits

- Open Modbus RTU communication
- For all digital TriOS sensors with Modbus communication
- Low-cost alternative to analog measuring points
- Integrated data logger with service logbook
- WiFi for communication via web browser



TriBox mini NET

20C100000

The TriBox mini NET has an Ethernet Connection on the right port instead of a WiFi module.

Technical Specifications

ENERGY SUPPLY

Voltage supply	100...240 VAC, 50...60 Hz, 10...15 VDC
Power consumption	typical: 2 W, max: 40 W

SENSOR INTERFACES

Connection	2 x M12 industrial connectors for TriOS sensors
Standard	RS-232, RS-485
Protocol	Modbus-RTU, TriOS

MODBUS RTU

Server RTU	No
Client RTU	Yes (on each sensor connection)
Parameter	Adjustable (default: 9600-8-N-1)

TriBox mini

NETWORK/USB

Standard	TB mini	WiFi IEEE 802.11b/g/n
	TB mini NET	Ethernet IEEE 802.3i
Connection	TB mini	Built-in WiFi antenna
	TB mini NET	Sensor interface COM2 (right)
Protocol		TCP/IP
Web Interface		Yes
USB		No

ANALOG INTERFACES

Analog output	2 x analog outputs, configurable 4...20 mA	
Load	Max. 500 Ω	
Connection terminals	1.5 mm ²	16 AWG
Error indicator	No	

SWITCH INPUT/OUTPUT

Measuring trigger	No	
Control voltage	12 VDC (only for TriOS accessories), terminal: max. 2.5 mm ²	12 VDC (only for TriOS accessories), terminal: max. 14 AWG

RELAY OUTPUTS

Electrical specification	1 x relay switching contact (SPDT)/250 VAC, 2 A/30 VDC, 2 A	
Connection terminals	Max. 2.5 mm ²	Max. 14 AWG

COMPRESSED AIR CLEANING

Valve	Optional: external connection possible	
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DISPLAY

Display	3.5 inch capacitive touch display (320x240 pixels)	
LED	5 x status LED	

DATA STORAGE

Storage medium	Internal 2 GB microSD card	
Data export	TB mini	Via WiFi (compressed tar file)
	TB mini NET	via Ethernet

AMBIENT

Operating temperature	0...+40 °C	~ +32 °F to +104 °F
Storage temperature	-20...+70 °C	~ -4 °F to +158 °F
Relative air humidity	0...95 % (non-condensing)	
Protection type	IP65	NEMA 4X

MECHANICS

Dimensions (H/W/D)	150 x 139 x 80 mm	~ 5.9" x 5.5" x 3.2"
Weight	1.6 kg	~ 3.5 lbs
Materials	Housing: Aluminium die-cast alloy Front panel: acrylic glass (PMMA)	