

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
- Low-cost alternative to analog measuring points
- Integrated data logger with service logbook
- WiFi for communication via web browser

Technical Specifications

ENERGY SUPPLY

Voltage supply	85-265 VAC, 50-60 Hz 10-15 VDC
Power consumption	Type: 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)

Photometers

Fluorimeters

Radiometers

Nephelometry

eCHEM

Controller

Accessories

Systems

NETWORK/USB

Standard	WiFi IEEE 802.11b/g/n
Connection	Built-in WiFi antenna
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 (AWG 16)
Error indicator	No

SWITCH INPUT/OUTPUT

Measuring trigger	No
Control voltage	12 VDC (only for TriOS accessories), terminal: max. 2.5 mm ² (AWG14)

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 (AWG14)

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	Via WiFi (compressed tar file)

AMBIENT

Operating temperature	0...+40 °C
Storage temperature	-20...+70 °C
Relative air humidity	0...95 % (non-condensing)
Protection type	IP65

MECHANICS

Dimensions	150 x 139 x 80 mm
Weight	1.6 kg
Materials	Housing: Aluminium die-cast alloy Front panel: acrylic glass (PMMA)