

TriBox3

10C000000

Digital 4-channel display and control unit with integrated solenoid valve for pneumatic control

TriBox3 is a measurement and control system for all TriOS sensors. The device provides 4 sensor channels with selectable RS-232 or RS-485 function. In addition to Modbus-RTU, various other protocols are available. A built-in valve allows compressed air cleaning of the sensors. In addition, the TriBox3 offers various Interfaces, such as a IEEE 802.3 Ethernet Interface, a IEEE 802.11 b/g/n Interface, a USB port and 6 analog outputs (4...20 mA). An integrated relay can be used to trigger alarms or



to control external devices. Low power consumption, a robust aluminium housing and multiple interfaces makes it suitable for all applications in the areas of environmental monitoring, drinking water and waste water treatment plants, and many other areas.

SAK254 LISA_305C	CSBeq LISA_305C	BSBeq LISA_305C	
36.25 1/m	52.93 mg/l	17.40 mg/l	Service
21.17 mg/l	27.25 %	62.79 %	Message
			Options
			Diagn
			Help
			Control

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
- USB interface
- TCP/IP interface
- Modbus RTU server
- Also Available without WiFi

Technical Specifications

ENERGY SUPPLY

Voltage supply	100...240 VAC, 50...60 Hz, 12...24 VDC (± 5%)
Power consumption	typical: 6 W, max: 50 W

SENSOR INTERFACES

Connection	4 x M12 industrial connectors for TriOS sensors
Standard	RS-232, RS-485
Protocol	Modbus-RTU, TriOS

MODBUS RTU

Server RTU	Yes (on each sensor connection)
Client RTU	Yes (on each sensor connection)
Parameter	Adjustable (default: 9600-8-N-1)

MODBUS TCP

Server TCP	Yes
TCP port	Adjustable (default: 502)

NETWORK/USB

Standard	Ethernet, WiFi IEEE 802.11b/g/n
Connection	1 x RJ-45, built-in WiFi antenna
Protocol	TCP/IP, Modbus TCP, VNC
Web Interface	No
USB	USB 2.0 (host), USB A socket

ANALOG INTERFACES

Analog output	6 analog outputs, configurable: 4...20 mA	
Load	Max. 500 Ω	
Connection terminals	1.5 mm ²	16 AWG
Error indicator	0 mA	

SWITCH INPUT/OUTPUT

Measuring trigger	Triggers for global measurement (galvanically separated)	
	Control voltage: 10...26 VDC Terminal: 1.5 mm ²	Control voltage: 10 - 26 VDC Terminal: 16 AWG
Control voltage	No	

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	Integrated
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DISPLAY

Display	7 inch capacitive touch screen (800 x 480 pixels)
LED	5 x status LED

DATA STORAGE

Storage medium	Internal 2 GB microSD card, direct log-in via USB stick possible
Data export	Via USB 2.0 Host

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	280 x 170 x 94 mm	~ 11" x 6.7" x 3.7"
Weight	3.7 kg	~ 8.2 lbs
Materials	Housing: aluminium die-cast alloy Front panel: acrylic glass (PMMA)	