

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.

2016-04-15 14:16:50 9403		System Info		Messautomatik aus	
SAK254 LISA_305C	CSBeq LISA_305C	BSBeq LISA_305C	Sensor	Anzeige	Optionen
36.25 1/m 14:15:37	52.93 mg/l 14:15:37	17.40 mg/l 14:15:37	Daten	Info	Power
TOCeQ LISA_305C	TRANS254 LISA_305C	TRANS530 LISA_305C			
21.17 mg/l 14:15:37	27.25 % 14:15:37	62.79 % 14:15:37			

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

Technical Specifications

ENERGY SUPPLY

Voltage supply	85...265 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 (AWG 16)
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 (AWG 16)
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 (AWG14)

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 per USB stick possible
Data export	Via USB 2.0 Host

AMBIENT

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

MECHANICS

Dimensions	280 x 170 x 94 mm
Weight	3.7 kg
Materials	Housing: aluminium die-cast alloy, front panel: acrylic glass (PMMA)