## TriBox3

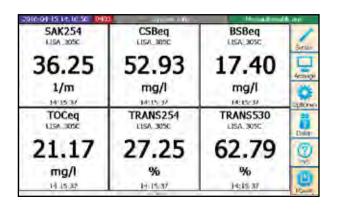
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# Digital 4-channel display and control unit with integrated solenoid valve for pneumatic control

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.



#### **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	100240 VAC, 5060 Hz, 1224 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)	

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

**Parameter** 

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: 420 mA		
Load	Max. 500 Ω		
Connection terminals	1.5 mm <sup>2</sup>	16 AWG	
Error indicator	0 mA		
SWITCH INPUT/OUTPUT			
Measuring trigger	Triggers for global measurement (galvanically separated)		
	Control voltage: 1026 VDC	Control voltage: 10 - 26 VDC	
	Terminal: 1.5 mm <sup>2</sup>	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 <sup>2</sup>	Max. 14 AWG	
COMPRESSED AIR CLEANING			
Valve	Integrated		
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	095 % (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)		