

TriBox3

10C000000

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

TriBox3 is a measurement and control system for all TriOS sensors. The unit offers 4 sensor channels with selectable RS-232 or RS-485 interface. In addition to Modbus-RTU, various other protocols are available. A built-in valve allows the use of a compressed air purge for the sensors. In addition, the TriBox3 offers various interfaces, including an IEEE 802.3 Ethernet interface, an IEEE 802.11 b/g/n interface, a USB connection and 6 analogue outputs (4–20 mA). An integrated relay can be used to trigger alarms or control external devices. Low power consumption, a robust aluminium



housing and a range of interfaces make the TriBox3 ideal for all applications in environmental monitoring, drinking water, waste water treatment plants and many other areas.

Advantages

- open Modbus RTU communication
- for all digital TriOS sensors
- cost-effective alternative to analogue measuring points
- integrated data logger with service logbook
- WiFi for communication
- USB interface
- TCP/IP interface
- Modbus RTU server
- also available without WiFi

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

Technical specifications

POWER SUPPLY

Voltage supply	100–240 VAC, 50–60 Hz, 12–24 VDC (± 5 %)
Power consumption	Type: 6 W, max: 50 W
Protection class	I
Overvoltage category	II

SENSOR INTERFACES

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

MODBUS RTU

Server RTU	yes (on each sensor connector)
Client RTU	yes (on each sensor connector)
Parameters	Adjustable (default: 9600-8-N-1)

MODBUS TCP

Server TCP	yes
TCP port	Adjustable (default: 502)

NETWORK/USB

Standard	Ethernet, WiFi based on IEEE 802.11b/g/n
Connection	1 RJ-45 integrated WiFi antenna (for TriBox3 with WiFi)
Protocol	TCP/IP, Modbus TCP, VNC
Web interface	no
USB	USB 2.0 (Host), USB-A socket

ANALOG INTERFACES

Analog Output	6 analogue outputs, configurable: 4–20 mA
Load	max. 500 Ω
Connection terminals	1.5 mm ² 16 AWG
Error indicator	0 mA

SWITCH INPUT/OUTPUT

Measurement trigger	Trigger for global measurement (galvanically isolated), Control voltage: 12–24 VDC ($\pm 5\%$) Connection terminal: 1.5 mm ² (AWG 16)	Control voltage: 12–24 VDC ($\pm 5\%$) Connection terminal: AWG 16
Control voltage	no	

RELAY OUTPUTS

Electrical specification	1 x relay changeover 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, max. air pressure: 5 bar
-------	--------------------------------------

DISPLAY

Display	7" capacitive touch-display (800x480 pixels)
LED	5 status LEDs

DATA STORAGE

Storage medium	internal 8 GB microSD card, direct logging to USB stick possible.
Data Export	via USB 2.0 Host

ENVIRONMENT

Operating temperature	−10 °C to +50 °C (with pre-installed mains power cable +5 °C to +40 °C)	~ +14 °F to +122 °F (with pre-installed mains power cable +41 °F to +104 °F)
Storage temperature	−20 °C to +70 °C	~ −4 °F to +158 °F
Relative air humidity	0–95 % (not condensing)	
Protection type	IP65	NEMA 4X
Pollution level	2	

MECHANICAL SYSTEM

Dimensions (width x height x depth)	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)	