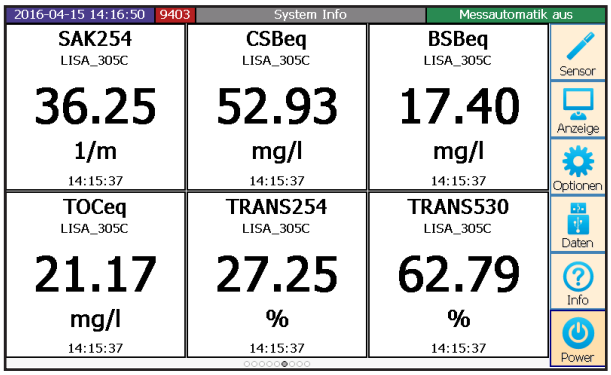
TriBox3

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.



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 mm²	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 mm²	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 mm²	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	-10...+50 (with preinstalled cable +5...+40 °C)	~ +10 °F to +122 °F (with preinstalled cable +41 °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)	