

## 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			
<b>36.25</b>	<b>52.93</b>	<b>17.40</b>			
1/m	mg/l	mg/l			
14:15:37	14:15:37	14:15:37			
TOCeq LISA_305C	TRANS254 LISA_305C	TRANS530 LISA_305C			
<b>21.17</b>	<b>27.25</b>	<b>62.79</b>			
mg/l	%	%			
14:15:37	14:15:37	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
- Also Available without WiFi

### Technical Specifications

#### ENERGY SUPPLY

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

#### SENSOR INTERFACES

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

#### MODBUS RTU

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

## MODBUS TCP

<b>Server TCP</b>	Yes	
<b>TCP port</b>	Adjustable (default: 502)	

## NETWORK/USB

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

## ANALOG INTERFACES

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

## SWITCH INPUT/OUTPUT

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

## RELAY OUTPUTS

<b>Electrical specification</b>	1 x relay switching contact (SPDT) (250 VAC, 2 A)/(30 VDC, 2 A)	
<b>Connection terminals</b>	Max. 2.5 mm <sup>2</sup>	Max. 14 AWG

## COMPRESSED AIR CLEANING

<b>Valve</b>	Integrated	
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## DISPLAY

<b>Display</b>	7 inch capacitive touch screen (800 x 480 pixels)	
<b>LED</b>	5 x status LED	

## DATA STORAGE

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

## AMBIENT

<b>Operating temperature</b>	-10...+50 (with preinstalled cable +5...+40 °C)	~ +10 °F to +122 °F (with preinstalled cable +41 °F to +104 °F)
<b>Storage temperature</b>	-20...+70 °C	~ -4 °F to +158 °F
<b>Relative air humidity</b>	0...95 % (non-condensing)	
<b>Protection type</b>	IP65	NEMA 4X

## MECHANICS

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