FTA Monitor 670 CT

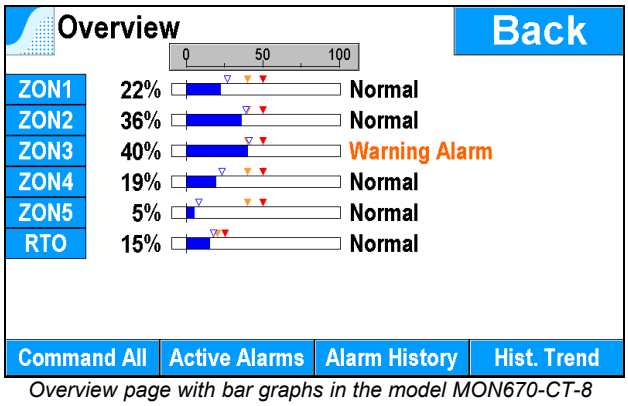
Operator Panel Series for the Remote Control and Data Logging of PrevEx FTA Analyzers

FTA Monitor 670 CT

The FTA Monitor 670 CT is a separate operator panel with touch screen for the PrevEx FTA analyzers of the 670 series. It allows the convenient remote operation of up to 16 analyzers from a distance and the logging of relevant analyzer data. The setup parameters, current status information and diagnostic information can be easily viewed and changed on the 7“ color display. The operator can reset alarms and initiate calibrations via the panel. In addition, trend displays of analyzer readings and historic event lists can be inspected.

By connecting a USB stick you can extract the complete status of all connected analyzers, as well as historic readings and event list.

The use of the FTA Monitor 670 CT is very advantageous for a multitude of analyzers or when direct access to the analyzer(s) is not convenient, e.g. when the analyzers are installed in remote, inaccessible locations, outdoors or in a hazardous zone. In addition, a fault diagnosis can be much simplified by an inspection of the event list (showing past fault messages, service needed requests, alarms, calibration, …) which also contains important diagnostic parameters at the time of the event.



Overview page with bar graphs in the model MON670-CT-8

Various Models for different Numbers of Analyzers

The FTA Monitor 670 CT is available in various models, each suitable for the connection of up to 1, 4, 8 or 16 analyzers.

Each model is ready for the connection of a maximum number of analyzers. The number of actually connected analyzers can be less. The exact number of analyzers is configured at startup time, but can be adjusted at any later time.

Easy Operation

Operating the FTA Monitor 670 CT is very easy due to the self-explaining touch buttons, the text messages, the color coding of data and the fast access to frequently used information and functions.

Analyzers can be designated with names so that the sampling location for a particular analyzer connected to the FTA Monitor can be easily identified.

LAN Interface

The LAN interface offers various services: A Modbus TCP server acts a a gateway and provides read access to the configuration and operating parameters of all connected analyzers. This can be used for data recording, visualization or analysis by higher-level systems. The Modbus TCP server can also be used to initiate commands on the analyzers so that alarms can be reset or calibrations can be initiated by a higher-level system.

An FTP server allows the download of archive files with readings and events lists

A VNC service allows the remote display or control of the FTA monitor from any PC, tablet or mobile phone, even via the Internet.

At a Glance

- Remote control and SCADA functionality for up to 16 analyzers with a single operator panel
- Easy access to the analyzer parameters and diagnostic information
- Password protection
- Convenient display of reading trends and event lists with archive records for multiple years
- Extract archive files to a USB stick
- Remote diagnostics
- LAN interface with Modbus TCP server providing analyzer parameters
- Display languages German and English
- Up to 1000 meters cable length to the analyzers

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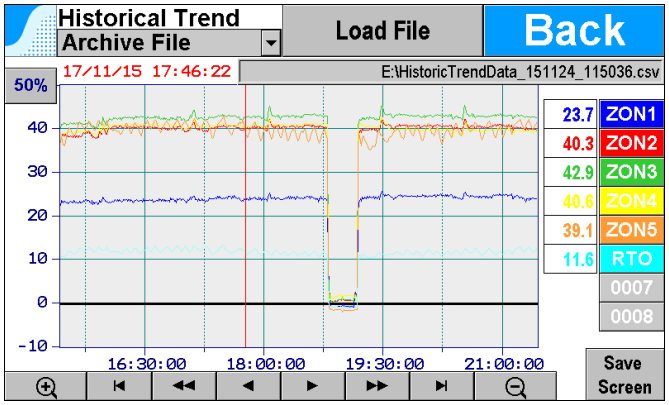


Trend Displays

The FTA Monitor records the readings of the connected analyzer and can visualize the reading in a trend display for the most recent 24 hours.

Both the x-axis (time) and the y-axis (reading scale) can be adjusted to zoom into the relevant data.

Long-term archives of the analyzer readings are stored in an internal memory. These archive files can also be visualized in the trend display or copied to a USB stick for further review on external computers.

Event Lists

Every relay action and fault, alarm or service message of the connected analyzer is recorded with a time stamp. In addition, specific diagnostic parameters are recorded with events and can be extremely useful for any trouble shooting. The messages can be viewed on screen and filtered according to user specified criteria.

Date	Time	No.	Grp.	ID	Clear	Message
2015/11/24	12:07:47	1	5	ST04		Zero gas (FLOW:2.34)
2015/11/24	12:07:47	1	5	RLY04		ZERO Relay
2015/11/24	12:04:45	1	5	ST00	12:07:47	Normal
2015/11/24	12:04:17	1	5	ST06	12:04:45	Purging (FLOW:2.34; PrevEx RAW ZERO:513.2;
2015/11/24	12:04:17	1	5	RLY04	12:04:45	ZERO Relay
2015/11/24	12:03:14	1	5	ST05	12:04:17	Span gas (FLOW:2.35; PrevEx RAW ZERO:513.2
2015/11/24	12:03:14	1	5	RLY05	12:04:17	SPAN Relay
2015/11/24	12:02:11	1	5	ST04	12:03:14	Zero gas (FLOW:2.32) (FLOW:2.35)
2015/11/24	12:02:11	1	5	RLY04	12:03:14	ZERO Relay
2015/11/24	11:59:50	1	5	ST00	12:02:11	Normal

Long-term archives of the event lists are stored in an internal non-volatile memory. These archive files can also be viewed on the screen or copied as CSV files to a USB stick for external analysis.

Operating Principle

The FTA Monitor 670 CT communicates with the analyzers via the RS-485 interface and continuously polls the setup and operating parameters of the connected analyzers.

The FTA Monitor itself does not store any analyzer parameters, you can continue to operate the analyzers directly at the analyzer panel.

The purpose of the FTA Monitor is to inform the operating personnel about the status of the analyzer(s) and for the remote setup and control of the analyzer(s).

Password Protection

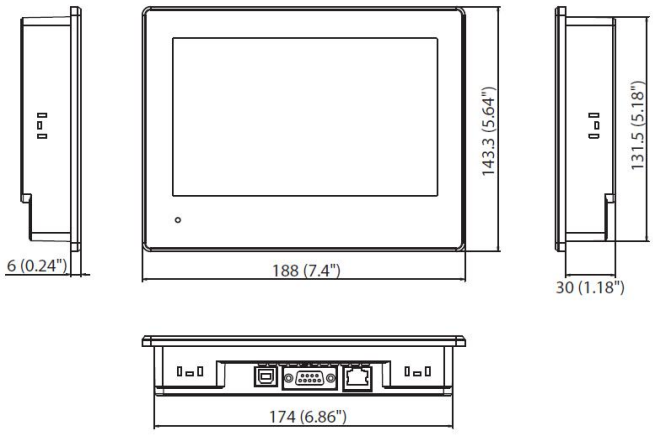
Calibration of the analyzers and modifications of the configuration parameters of the connected analyzers are protected by passwords to prevent operation by unauthorized persons.

Installation

The FTA Monitor 670 CT is installed in a cutout in a cabinet or panel. The FTA analyzers are connected via a common RS-485 bus cable (three-wire, twisted pair, shielded). The maximal cable length is 1000 Meters.

Specifications FTA Monitor 670 CT

Model designation	MON670 -CT-1	MON670 -CT-4	MON670 -CT-8	MON670 -CT-16
Maximum number of analyzers	1	4	8	16
Display	Touch-sensitive color screen with 7 inch (17,8 cm) diagonal, 800x480 pixels			
Power requirements	24 VDC ± 10%, 10 Watt			
Ambient temperature during operation	0 to 50°C			
Storage temperature	-20°C to +60°C			
Ingress protection	Front: IP 65			
Dimensions WxHxD	188 x 143,3 x 30 mm			
Cutout dimensions WxH	175 x 132,5 mm			
Weight	0,6 kg			
Interface to analyzers	Terminal block for serial RS-485 with Modbus RTU protocol, 9600 Baud Cable length up to 1000 Meters (cable not supplied)			
Additional interfaces	• LAN 10/100 Mbit (DHCP, FTP, VNC, Modbus/TCP, ...) • USB plug Type A for USB-Stick			
Display languages	German, English			



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