TOX® ProcessMonitor CEP 600

Data sheet 100.25

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Subject to technical changes.

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TOX® ProcessMonitor CEP 600

Monitoring production processes in real-time

The TOX® CEP 600 records individual measured values as bar charts and analyses them using min/max limits. Depending on the result of the measurement an OK/NOK message is issued both on the display and on the external interfaces provided. The number of channels can be selected in 2 steps: 2, 4, 6, 8, 10 or 12 channels. The 2-channel version already has the evaluation unit for the sensors on board. From 4 channels, all signals are recorded by the TOX® EdgeUnit in a decentralized manner.

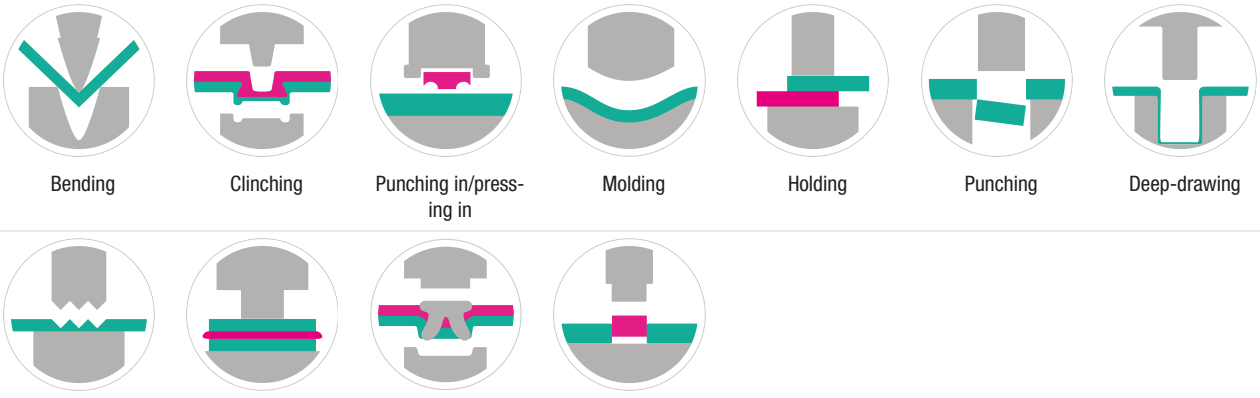
Configuration

The configuration and parametrization can be made directly on the device, and quality data can be evaluated. Thanks to a logically arranged graphic illustration, the display makes a fast visual inspection possible.

Functions

- Monitoring of processes by means of measured values
- For hand-work places and multichannel devices
- Graphic bar graph for the display of measuring values
- Input via touch screen
- Export of quality data via SFTP, fieldbus or USB
- Comfortable diagnostic tools
- Statistics generation in the device
- Built-in and wall mounted version available
- All established sensors can be connected

Field of application



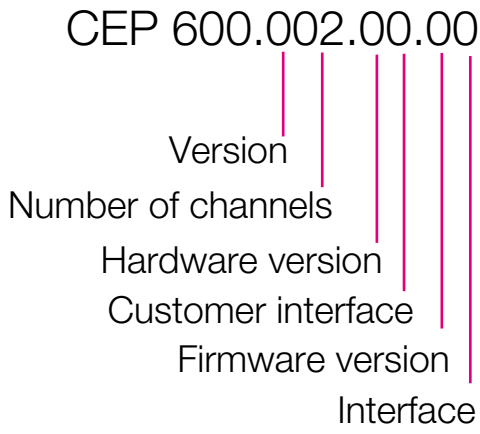
Optional fieldbus interfaces

- EtherNet IP
- EtherCat
- PROFINET

Technical data

Technical data	TOX® CEP 600 7” installation version	TOX® CEP 600 10.1” installation version	TOX® CEP 600 10.1” wall version
Supply voltage	24 V DC	24 V DC	24 V DC
Current consumption	≤ 1.5 A	≤ 1.5 A	≤ 1.5 A
Power supply connection	Phoenix Contact DFMC	Phoenix Contact DFMC	M12 connector
Display	7" TFT LCD WSVGA (1024 x 600) Color depth: 18-bit	10.1" TFT LCD WSVGA (1024 x 600) Color depth: 18-bit	10.1" TFT LCD WSVGA (1024 x 600) Color depth: 18-bit
Processor	ARM Cortex A7 2 x 1 GHz	ARM Cortex A7 2 x 1 GHz	ARM Cortex A7 2 x 1 GHz
Number of measuring programs	64	64	64
Dimensions (W x H x D)	Front frame: 200 mm x 133 mm x 7.5 mm	Front frame: 268 mm x 175 mm x 7.5 mm	Housing: 268 mm x 175 mm x 116.2 mm
Installation cutout (W x H)	187 mm x 120 mm	255 mm x 162 mm	-
Weight	575 g	910 g	2500 g
Ethernet	Ethernet (10 / 100 Mbit/s) EtherCat (1 Gbit/s)	Ethernet (10 / 100 Mbit/s) EtherCat (1 Gbit/s)	Ethernet (10 / 100 Mbit/s) EtherCat (1 Gbit/s)
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
Digital (optional)	16 input / 8 output	16 input / 8 output	16 input / 8 output
Analog	2-channel: input/output 0 - 10 V From 4 and more channels with TOX® EdgeUnit	2-channel: input/output 0 - 10 V From 4 and more channels with TOX® EdgeUnit	2-channel: input/output 0 - 10 V From 4 and more channels with TOX® EdgeUnit
DMS	Non-isolated Input size voltage range adjustable via software From 4 and more channels with TOX® EdgeUnit	Non-isolated Input size voltage range adjustable via software From 4 and more channels with TOX® EdgeUnit	Non-isolated Input size voltage range adjustable via software From 4 and more channels with TOX® EdgeUnit
Fieldbus interfaces	CC40 Module (EtherCAT, Ethernet IP, PROFINET)	CC40 Module (EtherCAT, Ethernet IP, PROFINET)	CC40 Module (EtherCAT, Ethernet IP, PROFINET)
Housing	Plastic - PA66 CF25, RAL 9000, UL 94-H	Plastic - PA66 CF25, RAL 9000, UL 94-H	Stainless steel
Fastening type	Clamp mounting via fixing elements	Clamp mounting via fixing elements	4 x M6 VESA 100
Protection class	IP65 front panel, IP20 housing, IP65 TOX® EdgeUnit	IP65 front panel, IP20 housing, IP65 TOX® EdgeUnit	IP 65 front panel, IP 40 housing, IP 65 TOX® EdgeUnit
Measuring channels	Force DMS Standard force signal Standard distance signal	Force DMS Standard force signal Standard distance signal	Force DMS Standard force signal Standard distance signal
Measuring channel resolution	2-channel: 16-bit From 4 and more channels with TOX® EdgeUnit	2-channel: 16-bit From 4 and more channels with TOX® EdgeUnit	2-channel: 16-bit From 4 and more channels with TOX® EdgeUnit
Max. sampling rate	1 kHz	1 kHz	1 kHz
Monitoring window	Min. / max. and Warning limits min. / max.	Min. / max. and Warning limits min. / max.	Min. / max. and Warning limits min. / max.
Password protection	Yes	Yes	Yes
Operating temperature range	+5 °C - +55 °C	+5 °C - +55 °C	+5 °C - +55 °C
Operating languages	German, English	German, English	German, English

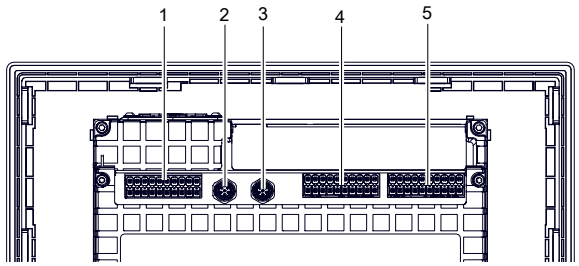
Code Matrix



Designation	Description
Version	■ 0 = Built-in device 7" ■ 4 = Built-in device 10.1" ■ 5 = Wall housing version 10.1"
Number of channels	■ 02 = 2 x Y-channel ■ 04 = 4 x Y-channel ■ 06 = 6 x Y-channel ■ 08 = 8 x Y-channel ■ 10 = 10 x Y-channel ■ 12 = 12 x Y-channel From 4 and more channels with TOX® EdgeUnit. Two additional channels are available for each TOX® EdgeUnit.
Hardware version	■ 0 = Y1 / Y2-channel in DMS / 0 - 10 V ■ 1 = TOX® EdgeUnit in DMS / 0 - 10 V
Customer interface	■ 0 = Digital 16 input / 8 output ■ 3 = Profinet CU ■ 5 = Ethernet IP ■ 8 = EtherCAT ■ 9 = EthernetIP CU-Slave ETH / EthIP / Power M12D / M12D / 7 / 8" plugs (only in wall housing version)
Firmware version	■ 0 = Standard, no process sequence control ■ 1 = Process sequence control, on request
Interface	■ 0 = TOX standard ■ 1 = Customer-specific with separate material number

Connections

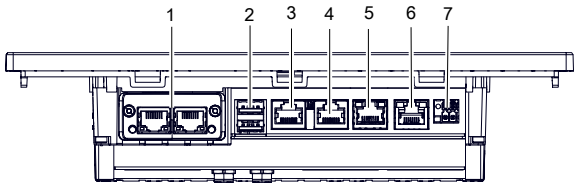
Installation version rear side



1	X5 I/O	2	X4 strain gauge 2 / Reserve
3	X3 strain gauge 1	4	X1 DIG I/O
5	X1 DIG I		

Fig. 1 Installation version connections rear side

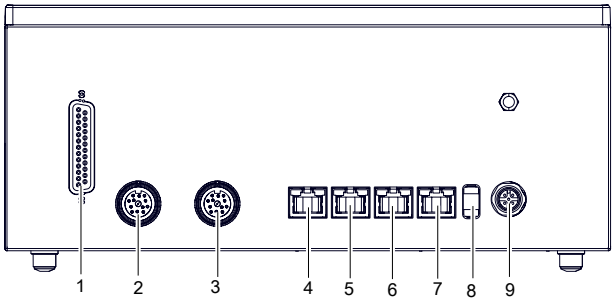
Installation version underside



1	Fieldbus module	2	USB
3	not occupied	4	not occupied
5	Ethernet	6	EtherCat
7	Power supply		

Fig. 2 Installation version connections underside

Installation version wall version



1	DIG I/O	2	Y / Ch1
3	X / Ch2	4	FB Out
5	FB In	6	Ethernet
7	EtherCat	8	USB
9	Power supply		

Fig. 3 Wall version connections

Dimensions

7" Installation version

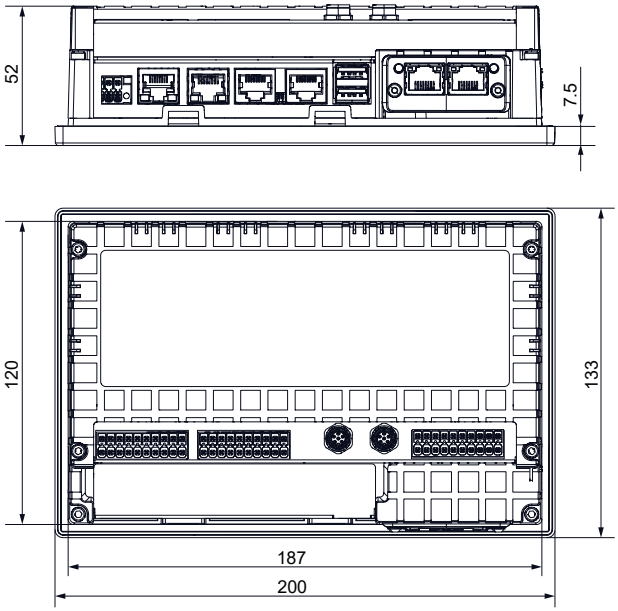


Fig. 4 7" Installation version dimensions

10.1" Installation version

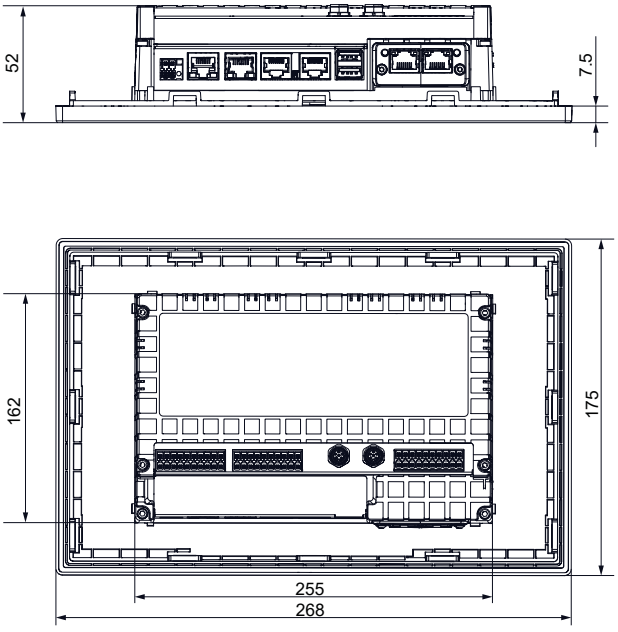


Fig. 5 10.1" Installation version dimensions

Dimensions

10.1"wall version

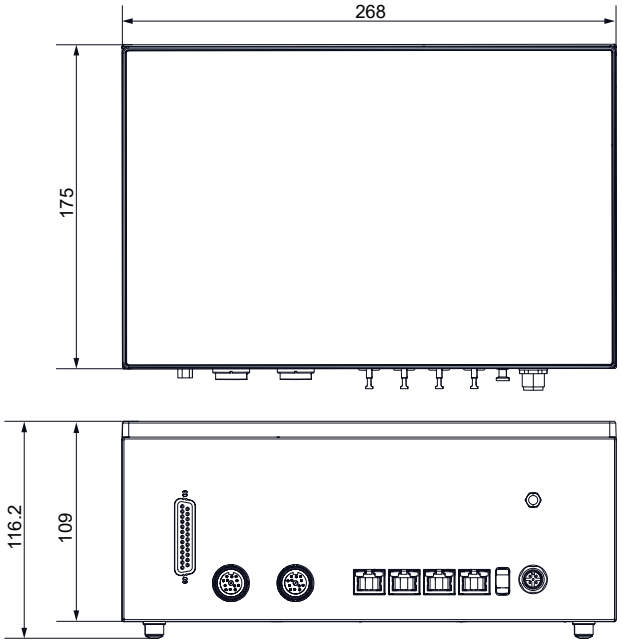


Fig. 6 10.1"wall version dimensions

Interface

Measuring curves, final values and setting parameters can be transmitted securely encrypted by the SFTP client. Two additional channels are available for each TOX® EdgeUnit.

