TOX ⏛ PRESSOTECHNIK

TOX®-Process Monitoring
CEP 400T

Data sheet 100.20
2020 / 02

TOX®-Process Monitoring CEP 400T

The TOX®-Process monitoring monitors clinching and joining processes and provides important data about the process sequence.

Functions:

- Real names for program memory, up to 40 characters
- 64 sensor configurations per channel
- 4 password levels: operator, setup technician, integrator, manufacturer
- 16 digital inputs and 8 digital outputs
- Status indicator menu of digital I/O ports
- Stores up to 1000 values with time stamp
- Includes TOX®softWare for parameterization and data recording
- Choice of panel mount unit or wall mount unit IP54
- Ethernet interface
- Provides important information about the process sequence
- Special monitoring by means of window technology for clinching processes
- Individual measuring programs available
- Storage of final values
- Several password levels
- Color touchscreen
- Versions with 1 / 2 / 4 / 8 / 12 channels
- Individual evaluation with 1-/2 channel versions

Optional expansion:

- Field bus interfaces of all common bus systems*
- Process sequence control for TOX®-Clinching Processes
- Service modules such as
  - Remote maintenance
  - Test control unit to check measuring chain
- Analog output 0 – 10 V
- Evaluation unit for bench top presses TOX®-FinePress
- Display of control dimension X (absolute value)

*With field bus connection, individual evaluation IO / NIO and end values are displayed, independent of the number of measuring channels in the device.
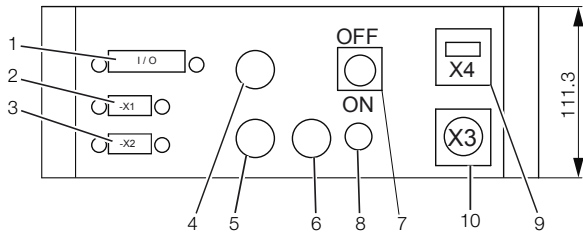
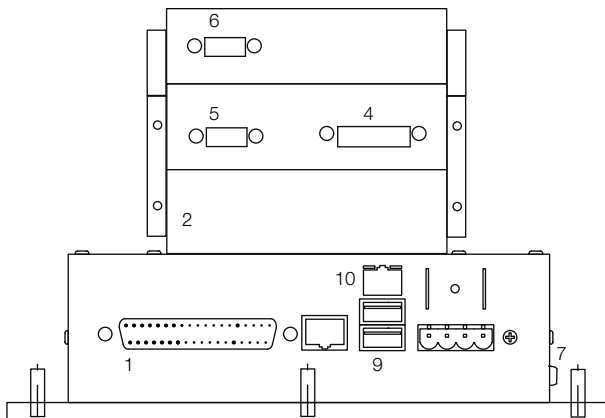| Technical data	CEP 400T
Application	Monitoring of force processes
Supply voltage	24 VDC
Current consumption	≤ 1 A
Display	5.7" color touchscreen TFT LCD 640 x 480 (VGA) Color depth 16 bit
Inputs / Outputs	Digital: 16 inputs / 8 outputs
Number of measuring programs	64
Dimensions W x H x D (mm)	Built-in unit: 210 x 185 x 123.5 (D 99 for two slots) Wall mounted unit: 400 x 360 x 160
Weight	Built-in unit: 1.5 kg Wall mounted unit: 4 kg
Interfaces	Ethernet, USB, Digital In/Out
Fieldbus interfaces	PROFIBUS DP, PROFINET CU, DeviceNet, Ethernet IP, CANopen, PROFINET LWL, EtherCAT separate gateway for 12 channel devices
Protection class	Built-in unit IP54 front panel IP20 housing Wall mounted unit IP54
Number of measuring channels	1 / 2 / 4 / 8 / 12
Measuring channels: Force DMS Force standard signal	▪ ▪
Measuring channel resolution	12 / 16 Bit
Max. measuring interval	2000 Hz
Monitoring by means of window technology	▪
Password protection	▪
Number of last final values in memory	1000
Data backup	1000 final values transferrable to USB memory stick as CSV file Data backup with TOX®softWare

TOX®-Process Monitoring CEP 400T

Connections

Wall mounted unit

1 Input/Output digital
2 Fieldbus interface (option)
3 Reserve
4 XK 1-4 Force transducer
5 XK 5-8 Force transducer
6 XK 9-12 Force transducer

7 Main switch
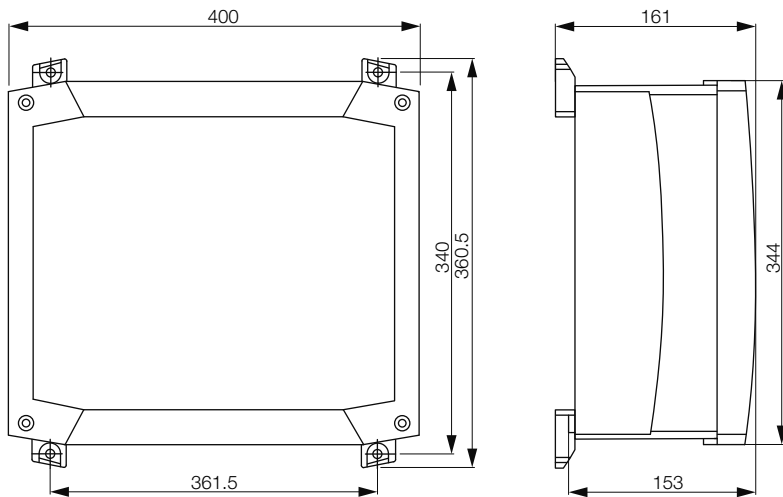8 Supply voltage 24 V DC
9 USB interface
10 Ethernet interface

Build-in unit

TOX®-Process Monitoring CEP 400T

Dimensions

Wall mounted unit

Built-in unit