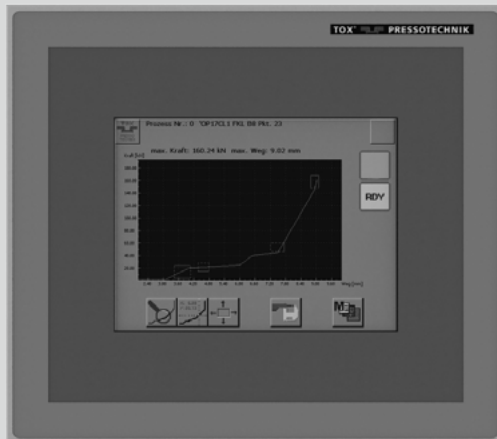


TOX®-Pressing Monitors

Real-time monitoring of
production processes



Data
sheet
100.10

2018/05

TOX® PRESSOTECHNIK GmbH & Co. KG
Riedstrasse 4
88250 Weingarten, Germany

Find your local contact at:
www.tox-pressotechnik.com

TOX[®]-Pressing Monitors

Real-time monitoring of production processes

The TOX[®]-Pressing Monitors monitor processes where a precisely defined functional correlation between forces and distances must be examined. This equipment is used widely to monitor joining, riveting, pressfitting and caulking processes and leads to continuous improvement of quality in production.

Here, during measuring the devices read force-path data pairs belonging together from two measuring channels ,X' and ,Y'. The data are stored in a memory and can be displayed graphically. The resulting force-path function is compared with specified maximum ratings of the configured window values or envelope. If the maximum ratings are complied with, an IO message is issued, otherwise an NIO message.

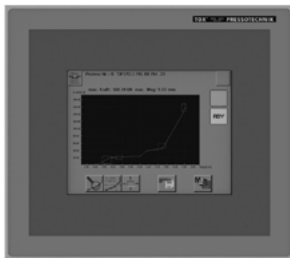
Configuration

Thanks to the built-in display and the understandable menu the device can be comfortably configured and parameterized. The complete production-data is stored and can be edited and displayed easily.

The change of piece parts is quickly performed due to 64 specific parameter settings, which can be selected either directly by the touch screen or by PLC.

Features

- + Real-time monitoring of production processes
- + Provides important data about process sequence
- + Special monitoring by using window technique and envelopes
- + Individual measuring programs can be selected
- + User interface language can be switched
- + Backup of measurement data and final values
- + Various password levels



The EPW 400 monitors pressing processes and is available as built-in device and wall mounted version.

Extensions

- TOX[®]-Evaluation Box with extended display and acceptance function
- Fieldbus interfaces



EPW 500FP: the economical alternative is available as wall mounted version.

Compact design

- Swivelling housing
- Compatible with Rittal CP60 and VESA 75x75mm fixtures

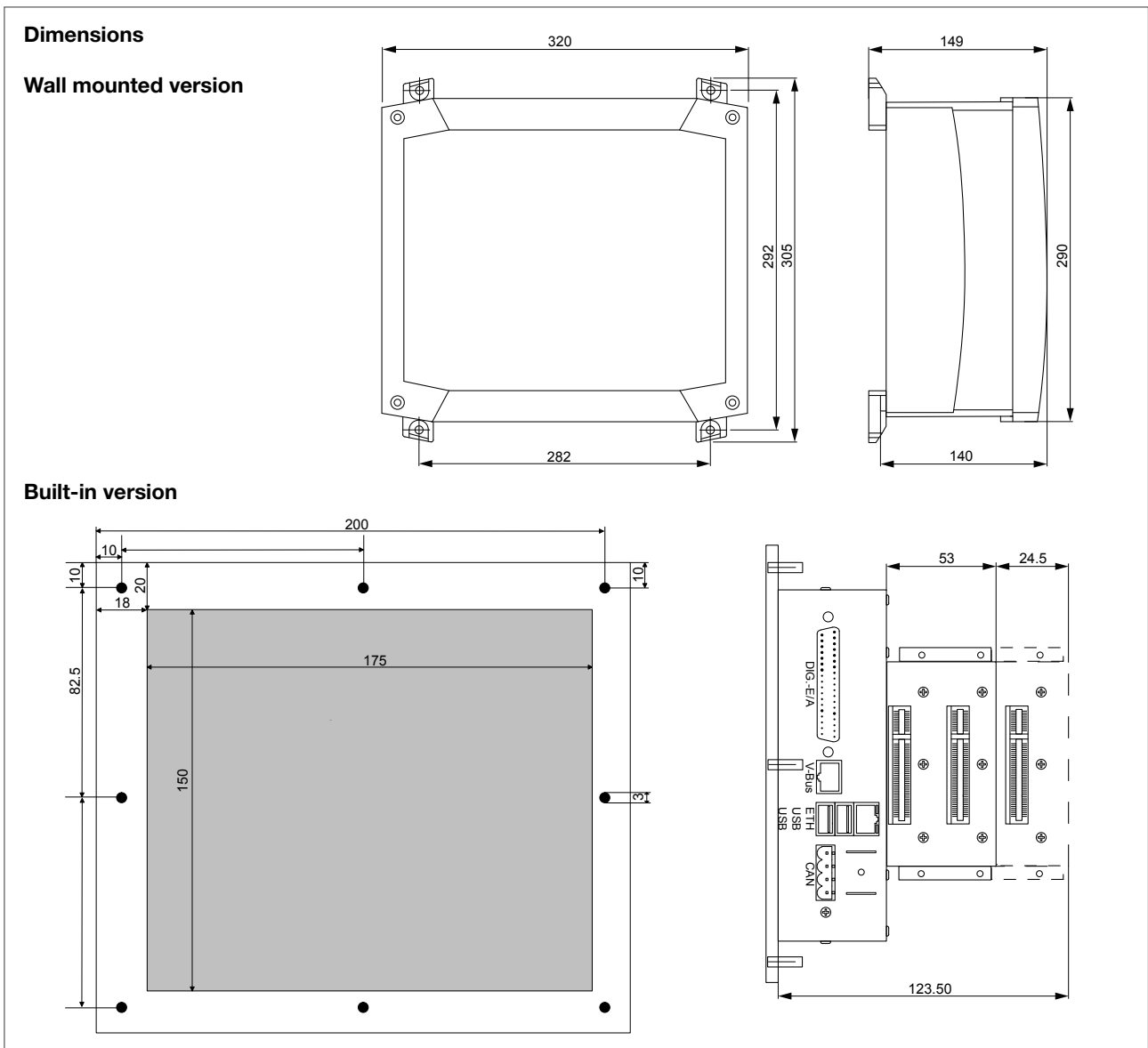
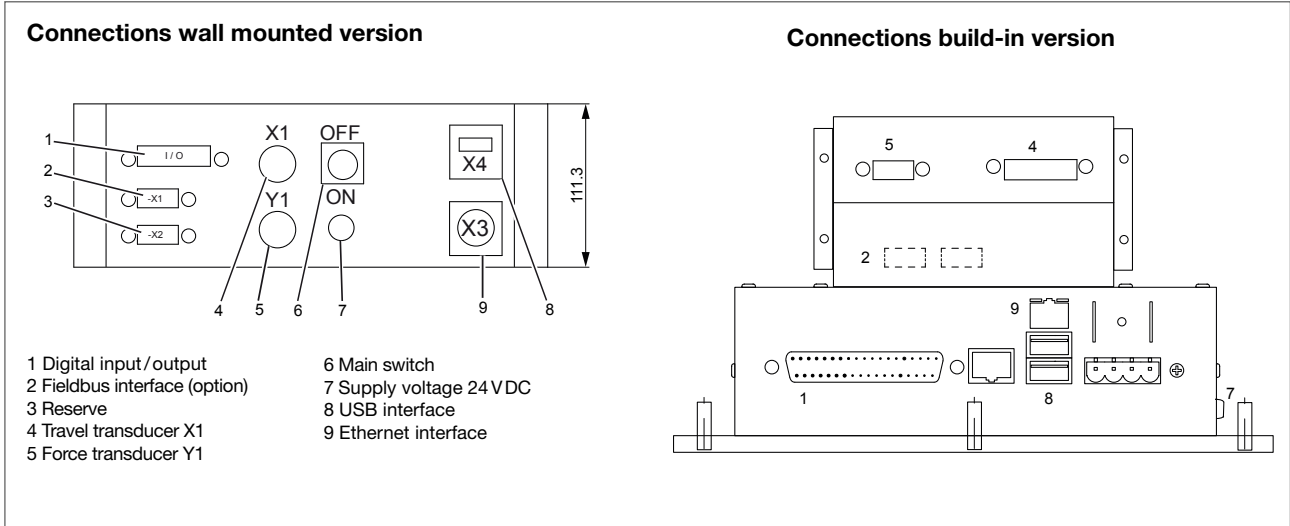
Real-time monitoring “work & see”

- Provides important information about the process sequence
- Special monitoring by means of window and envelope technology
- Individual measuring programs available
- Storage of measured curves and final values
- Several password levels
- Colour touchscreen

Technical data	EPW 400	EPW 500FP
Application	Monitoring of pressing processes	Monitoring of pressing processes, particularly for the bench top presses TOX®-FinePress
Supply voltage	24VDC	24VDC
Current consumption	≤ 1 A	≤ 1 A
Display	5.7" colour touchscreen TFT LCD 640x480 (VGA) Colour depth 16 bit	7" colour touchscreen LCD 800x480 (WVGA) Colour depth 16 bit
Inputs / Outputs	- Digital: 16 inputs / 8 outputs - Analogue: 2 outputs	- Digital: 13 inputs / 8 outputs - Analogue: 3 outputs
Number of measuring programs	64	128
Dimensions W x H x D (mm)	Built-in version: 210 x 185 x 123.5 (D 99 for two slots) Wall mounted version: 320 x 305 x 149	Housing dimensions: 244 x 207 x 75
Weight	Built-in version: 1.5 kg Wall mounted version: 4 kg	2.5 kg
Interfaces connections	Ethernet, USB, Digital In/Out	USB, Digital In/Out
Fieldbus interfaces	Ethernet, PROFIBUS DP, PROFINET CU, DeviceNet, Ethernet IP, CANopen, PROFINET LWL, EtherCAT	-
Protection class	Built-in device IP54 front panel IP20 housing Wall mounted version IP54	IP67 front panel IP40 rear of housing
Measuring channels:		
Force DMS	x	x (1.1 mV/V)
Force standard signal	x	x
Path standard signal	x	x
Measuring channel resolution	16 bit	16 Bit
Max. sampling rate	2000Hz	2000Hz
Monitoring by means of window and/or envelope technology	max. 10 windows x	max. 10 windows x
Password protection	x	x
Display of last measured curves in diagram	10	10
Number of last final values in memory	1000	1000
Number of last measured curves in memory	100	100
Backup	100 measured curves and 1000 final values transferrable to USB memory stick as CSV file Backup with TOX® _{soft} Ware	100 measured curves and 1000 final values transferrable to USB memory stick as CSV file

TOX[®]-Pressing Monitor EPW 400

Connections and dimensions



TOX®-Pressing Monitor EPW 500FP

Connections and dimensions

