

TOX-UDI Panel extends portfolio of TOX PRESSOTECHNIK

Monitoring and controlling processes

TOX PRESSOTECHNIK extends its portfolio and launches the TOX-UDI (Universal Data Interface) Panel as smart addition to the products of the latest software generation on the market. It has an integrated PC and works with the TOX-Software on a hardened Linux operating system for optimum IT security. Users can use the integrated touchscreen to control and visualize the system as well as store and handle process data.

A central element of the intuitive panel is the implemented TOX-Software with so-called middleware functionality. It handles data from processes and makes them available for different communication standards such as MQTT or OPC UA. Furthermore, the information can be stored on the internal hard drive or via the network on the server. Relevant process data are shown by the intuitive TOX-Software. "Functionality reaches far beyond that of a visualizing Human Machine Interface (HMI). The Universal Data Interface paves the way to digital connection with regard to IoT and Industry 4.0", says the responsible Product Manager Fabian Bodenstein.

Users can apply the panel wherever the TOX-Software 3.x is used, for example for the TOX-ElectricDrive Core drive solution. This can be used to store quality data and transmit them to the cloud. As central intelligence and visualization of the user interface, the control panel is already integrated on the TOX-FlexPress Compact assembly workstation as standard. Machining results are clearly visualized and are transmitted to higher systems where applicable.

A 240 GB hard drive, for the 21 inch version, the hard drive has 256 GB, provides the option to archive and track data. The UDI Panel is easy to mount and well protected against contamination and other negative environmental influences by the closed design without fan in accordance with IP66. It is suitable for ambient temperatures from 0 to +40 degrees Celsius. For mounting on a support arm or as installation variant, the UDI Panel is available in 13 and 21 inches. There is also a 10 inch panel as handheld version. For applications that do not require a display, the new system is also available as a control cabinet version TOX-UDI Module.

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Meta description: TOX PRESSOTECHNIK provides its UDI Panel as intelligent extension for the products of the latest software generation.

Keywords: TOX PRESSOTECHNIK; UDI Panel; process monitoring; control; IT security; Industry 4.0; visualization; intuitive operation; cloud capability; HMI; OPC UA; MQTT; Middleware

Captions:



Image 1: The panel combines the control and visualization of a system with the storage and processing of process data and provides interfaces to the cloud, e.g., via MQTT or OPC UA.



Image 2: The 10-inch version is designed as handy operating panel.



Image 3: The touch panel is intuitive to operate and makes relevant process data available clearly.

Images: TOX PRESSOTECHNIK GmbH & Co. KG

About the company:

TOX® PRESSOTECHNIK is a supplier of presses and components for the metal processing industry. Since its foundation in 1978, the family business has become a global player with more than 1400 employees worldwide, 550 of which are based at the headquarters in Weingarten near Ravensburg, Germany. The success story started with one pneumohydraulic drive – the TOX®-Powerpackage. The “Components” division now also includes above all the electromechanical servo presses as well as controls, sensors and software for process monitoring and quality assurance. The “Systems” division comprises different presses as well as manual, machine and robot tongs. Another mainstay are modern sheet metal joining procedures, also incorporating the TOX®-Clinching Technology, which makes the company today’s market leader.

The drives, processes and systems from TOX® PRESSOTECHNIK can be found at automotive manufacturers and their suppliers as well as at manufacturers of household appliances, electronic components and furniture. Special versions of the TOX®-Drives are also approved for the food industry.

TOX® PRESSOTECHNIK is represented worldwide: 18 subsidiaries, amongst others in the USA, China, India, South Korea and Europe, as well as 20 representatives in many other markets support and advise local users.

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