

ELECTRONIC INTERFACE UNITS

Electronic interfaces to manage, synchronize inductive probes and allow data transfer to a computer or an automatic inspection machine.

TESA Probe Interface Boxes - BPX Series

Modular system available in 2 versions (BPX and TWIN-STATION) for the conversion of measured signals to digital values and transmission of these values to a computer. These units are key components for multigauging inspection fixtures for centralised process control systems.

Signal inputs – 1 to 4 TESA standard half-bridge probes.

Signal output – digital, RS232 through USB port.

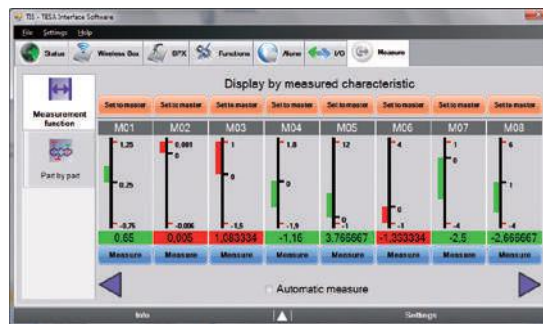
- Direct connection to the computer's USB port.
- Stand Alone operating mode: program routine via the computer, enabling the BPX box to execute a simple measuring function with classification signal relay via connector Sub-D 15P.
- Optimal adaptation for various measuring applications, for example, connection of 16 probes thanks to serial USB connections on 4 BPX boxes.
- Increased functional reliability and high precision.
- Increased immunity to negative environmental effects, whether of electrical origin or provoked by liquid and solid contaminants.
- BPX is compatible and can be used with TWIN-STATION.
- TIS interface software is included in the BPX (part number 05030012) for display of measured values. Possibility of indicating tolerance values, and simple functions +A, -A, +A+B, +A-B, export of values to a .csv file.



BPX Front



BPX Rear



TIS software included in the BPX supply

- ±2 mm, ±5 mm
- 0,1 µm
- Field error indication (pictogram / text) to a temperature of 20°C and a relative humidity of ≤ 50 %: Digital output: ±(0,05 + 0,15 % of range)
- 55 x 172 x 155 mm (H x W x D)
- Housing in aluminium
- For a temperature of 20°C and a relative humidity of ≤ 50 %: Zero drift: ≤ ± 0,05 %/°C. Sensitivity drift: ≤ ± 0,05 %/°C. Acquisition time: 10 ms (between two consecutive measurements) 1 ms (timing window) time data transfer of digital serial output (USB): depends on the operating system of the computer.
- USB port (USB Hub) Communication: USB 2.0, 3 external ports (≤ 100 mAh)
- Supply voltage of the charger: 115 to 230 Vrms, charger frequency 50 ÷ 60 -10 to +15 % Hz
- 10°C to 40°C
- 10°C to 70°C
- 80 %, without condensation
- IP40 (IEC 60529) (DIN 40050)
- IEC/EN 61326-1 U.S. 47 CFR part 15, subpart B, Class B digital device
- 1 kg (BPX) 0,85 kg (TWIN Station)
- Power supply 100 ÷ 240 V, 50 ÷ 60 Hz (04761054) EU Cable, CH (04761055) U.S. Cable (04761056)
- Packed suitable for transport
- Identification number
- Declaration of conformity

	Number of probe inputs	Number of I / O (In / Out) controllers	Connector
05030010	4	1 / 3	Sub-D 15 p/f (for In/Out signals)

