Product datasheet

i-TBOX-02

Thermal compensation I/F for CMMs

i-TBOX-02 **is Itaca's compact interface specifically developed for the thermal compensation of CMMs.**

It is supplied with 4 digital, 1-Wire® sensors and 4x1m cables (extensions available) for the assembly on the CMM.

The number of sensors is unlimited. Cabling is simplified by the 1-Wire® bus concept .

One single cable is needed to be laid in the CMM, through all axes.

All sensors, already calibrated and identified by a unique 1-Wire® address, are connected with a conventional 6/4 telephone RJ connector, anywhere onto the bus.

The bus can be easily extended by adding pieces of telephone cable with conventional extension T or Y connectors.

Conveniently powered by the controller's 24VDC supply.

It is connected to the PC by a RS232 serial line and interfaced to Itaca's measuring SW, Tangram.

No clumsy boards and cables to fit into PCs. Just a serial line that will fit any desktop or laptop.

The thermal sensors may be inserted into bores in the machine structure, near to the scale if glued scales are used or may be fixed to the scale if free scales are used.

No adjustments needed.

Specifications:

Power supply: External 24VDC

Sensor number: four (three for axes temperature and one for part temperature)

Sensor Type: Digital 1-Wire®

Temperature Range: 0-85 °C

Resolution: 0.06 °C

Cables: 3 wires, 1.5 m length, mini telephone 6/4 pins RJ type connector

Communication: RS232

SW Compatibility: Itaca Tangram*

*Note: the integration with other SWs may be done by the SW maker very easily. Ask for info

Agent/Distributor's stamp

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