

CITES

Circularity Tester



MAIN ADVANTAGES

- Measurement of rotor surface quality of all diameters
- Non-contact and contact surface quality measurement in one single trace
- Export of measured data

Description and usage

The rotor surface quality measuring instrument consists of a metal box with a CITES measuring unit. This measuring unit is connected via USB to a PC where the UDAQsw software must be installed.

In addition, 2 Emerson EZ1000 transducers for EZ1080 non-contact sensors and 1 MSC7401 transducer for touch sensors DTA-1G8, 230 VAC/ 24 VDC power supply are installed in the cabinet.

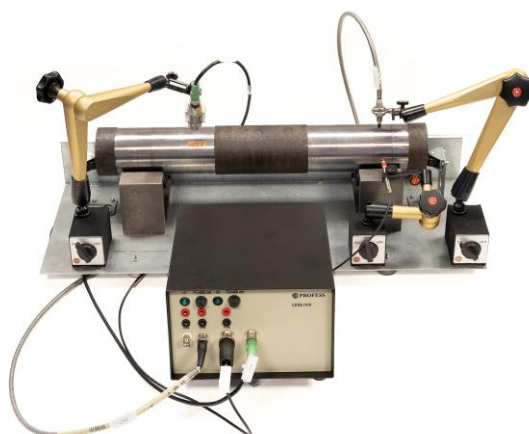
The power supply is only used to power the transmitters. If the instrument is to be used only for measuring external signals applied to channels 5 to 8 (or 4 to 8, see below), it is not necessary to connect the 230 VAC power supply.

The availability of 24 VDC for the transducers is indicated by a green LED on the front panel of the instrument. The built-in transducers are connected to inputs 1, 2 and 3 of the control panel. Input 4 is reserved for possible expansion with an additional EZ1000 transducer for Emerson sensors. Inputs 5 through 8 are brought directly to the front panel plug-in connector and can be used as required.

The EZ1080 transducers are connected via BNC connectors and the DTA-1G8 transducer via a 5-pin front panel connector. The sensors are identified on the cable by channel (connector) number. Interchanging may result in reduced measurement accuracy.

There are sockets above the connectors where the output voltage from the transmitter can be measured. This allows the working position of the transducers to be set without a PC using a voltmeter. In the case of channel 4, which is not yet occupied, the BNC connector is not functional, but an external signal can be fed to channel 4 via the sockets and can thus also be used.

Pay attention to the sockets of channels 1, 2 and 3, no voltage must be applied externally!



CITES with sensors on the test model.

Technical specifications

Dimensions:	250 x 100 x 175 mm W x H x D)
Mechanical constr.:	metal box, connected to PE clamp.
Protection class:	IP 20, except for BNC connectors: the BNC connector body of the sensor forms part of the measurement circuit of the sensor. Accidental connection of the BNC connector bodies to each other or to an external frame during operation may cause a ground loop to occur and affect the operation of the instrument.
Device power supply:	100-240 VAC / 50-60 Hz
Power consumption:	approx. 10 VA
Fuse:	Tubular 5x20 mm, 400 mA-F
Galvanic separation:	The instrument cabinet is grounded to the PE terminal of the 230 VAC power cable. The power supply for the converters is galvanically isolated from the PE. The protective hoses of the transducer cables are insulated.

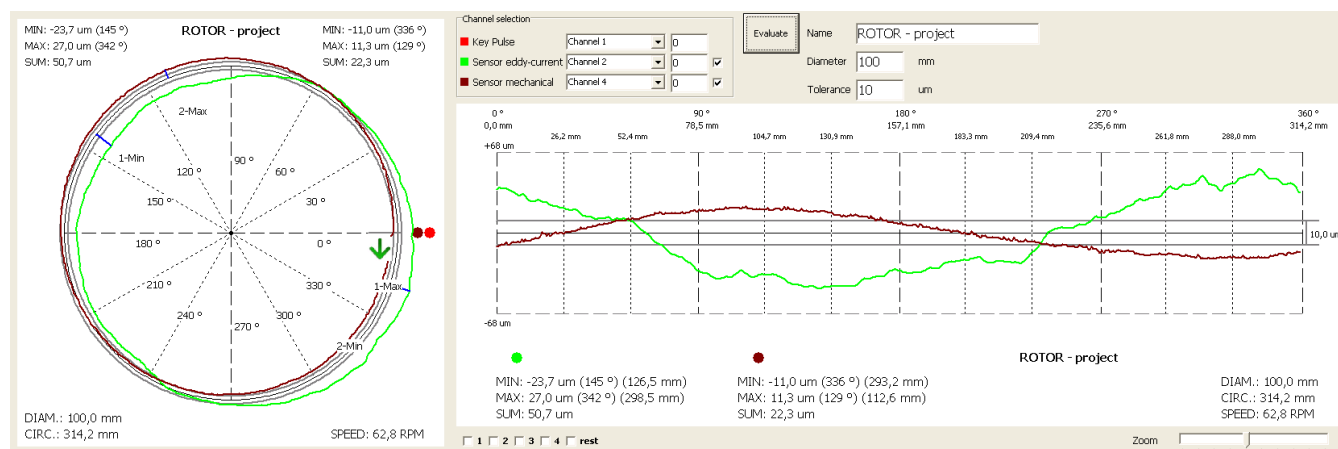
Contents of the measuring apparatus

Device PROFESS CITES	1pc
Convertor EZ1000 and sensor EZ1080	2pcs
Convertor MSC7401 and sensor DTA-1G8.....	1pc
USB A-B cable	1pc
Power cable flexo 230 V	1pc
Shipping case	1pc
Instruction manual	1pc
Data sheets for sensors and transmitters	1pc
Installation flash drive PROFESS	1pc
Calibration sheets for sensors	1pc

Optional accessories

Optical probe measurement kit:
Optical probe
Optical probe extension cable
Optical probe holder for stand
Reflective tape for optical probe
Magnetic stand

Surface Quality Measurement Output Data



Wiring diagram

