

DATA SHEET

CT 110



Tachometer

Supplied with CALIBRATION certificate*



Easy to use



Adjustable backlight



Hold-min-max function



Manual autozero

Features

- Selection of tachometry units
- Contact/optical selection
- Hold function
- Backlight
- Configurable auto shut-off
- Display of minimum and maximum

Technical specifications

Parameters	Measuring units	Accuracy**	Measuring range	Resolution
Optical tachometer	rpm	From 60 to 10 000 rpm: ±0.3% of reading ±1 rpm From 10 001 to 60 000 rpm: ±30 tr/min	From 60 to 60 000 rpm	1 rpm
Contact tachometer	rpm, m/min, ft/min, in/min, m/s	From 30 to 3000 rpm: ±1% of reading ±1 rpm	From 30 to 3000 rpm	1 rpm

*Except class 110 S which is supplied with adjustment certificate.

**All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

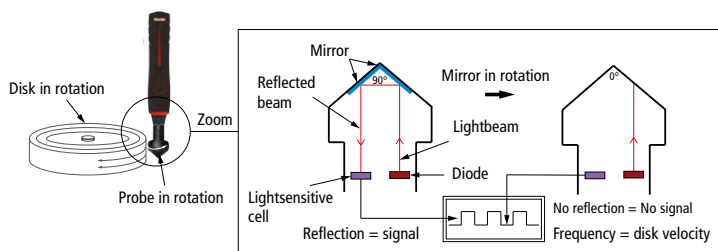
General features

Measuring elements	Optical tachometry: optical detection (Phototransistor sighting distance max. 40 cm) Contact tachometry: ETC adaptator for optical tachometry probe
Display	4 lines, LCD technology. Dimensions: 50 x 36 mm 2 lines of 5 digits with 7 segments (value) 2 lines of 5 digits with 16 segments (unit)
Connector	Coiled, 0.45 m length, extension: 2.4 m
Housing	ABS, protection IP54
Keypad	5 keys
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE
Power supply	4 batteries AAA LR03 1.5 V
Ambience	Neutral gas
Conditions of use (°C, %RH, m)	From 0 to +50 °C. In non condensing conditions. From 0 to 2000 m.
Storage temperature	From -20 to +80 °C
Auto shut-off	Adjustable from 0 to 120 min
Weight	190 g

Operating principle

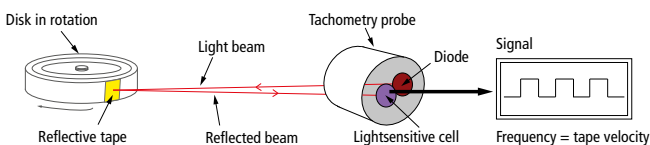
Contact tachometry

A light beam from a diode is reflected by a rotating mirror located inside the probe head. A light sensitive cell detects the frequency of the signal of the beam which is proportional to the rotation speed.

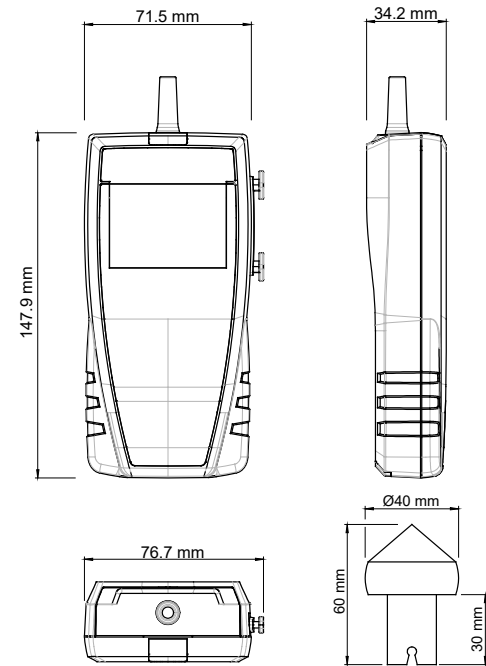


Optical tachometry

A light beam emitted from the diode of the probe is reflected by a reflective tape placed on the measured element. A light sensitive cell detects the beam and translates it in frequency signal which is proportional to the tape rotation speed.



Dimensions (in mm)



Kit content

Designation	Sales reference	Description
CT 110	24629	Tachometer with optical tachometry probe Ø 17 mm, 195 mm length, tip of contact tachometry, a reflective tape, calibration certificate and soft transport case
CT 110 S	24718	Tachometer with optical tachometry probe Ø 17 mm, 195 mm length, tip of contact tachometry, a reflective tape, adjustment certificate and soft transport case

Certificates

Calibration certificate: A calibration is a comparison of the values of the instrument with those of a standard to determine a measurement error with an associated calibration uncertainty. A calibration certificate guarantees the traceability of measurements to national standards.

Adjustment certificate: An adjustment certificate is a document that ensures the conformity of the device with the tolerances of the data sheet. It ensures that the device has followed the manufacturing process.

Accessories

Designation	Sales reference	Description
CQ 15	24633	Magnetic protective housing
RTE	24632	Telescopic extension, 1 m length, with index at ±90°
MT 51	24636	ABS transport case
ST 110	24635	Soft transport case

Maintenance

We carry out calibration, adjustment and maintenance of your instruments to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry out a yearly checking.