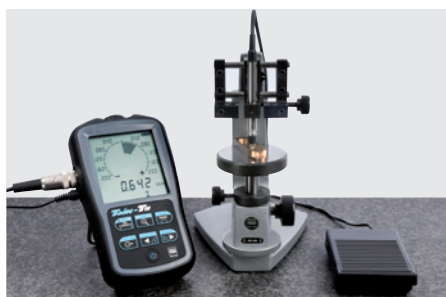


Portable Display
for Inductive Probe

TWIN-T10



UNIQUE FEATURES:

- **UNEQUIVOCAL READING**
- **EXCEPTIONAL OPERATING AUTONOMY**
- **MAX, MIN, MAX-MIN, TOL FUNCTIONS**
- **DETAILED SEGMENTATION OF THE SCALE**
- **AUTO-CALIBRATION**

COMPACT AND HEAVY-DUTY INSTRUMENT DESIGNED FOR THE SHOP-FLOOR

TWIN-T10 autonomy offers great operating comfort in shop-floor: no daily recharge of the battery or no worry about the remaining autonomy.

TWIN-T10 has been carefully designed for best efficiency with unequivocal reading and for ease of operation. The size of the keys along with its clear tactile feedback prevents operating errors.

The high-quality elastomer overmoulding with a soft-touch finish makes the instrument wear-resistant and comfortable to hold. Maximal protection against dust and particles in production and assembly environment is ensured thanks to its IP63 rating.



Run-out measurement with GT-31 lever probe



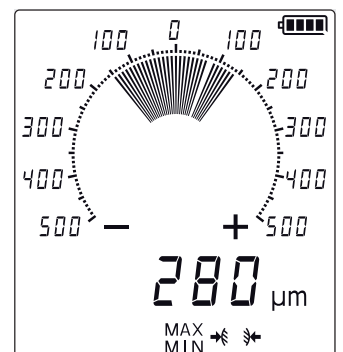
Squareness verification against a squareness reference marble

The large high-contrast display and the shape of the analogue scale have been specifically designed to visualize easily slight variations in form or to detect turnaround point.

TWIN-T10 is particularly suitable for straightness, run-out, form or geometry evaluation during fine adjustment, alignment or fitting of mechanical parts.

Application examples:

- Squareness adjustment of the Z-axis of a machine
- Alignment of guide rail to the marble bench
- Centering of a part on machine-tool
- Measurement of parallelism and perpendicularity



Measurement mode with MAX-MIN

Special analogue scale

TWIN-T10 has been designed to provide effortless reading thanks to the detailed segmentation and the numbering across the scale. The 200 segments available along with its hemispherical shape enable a sensitive visualization during geometrical measurement such as straightness, run-out or parallelism.

Zoom mode

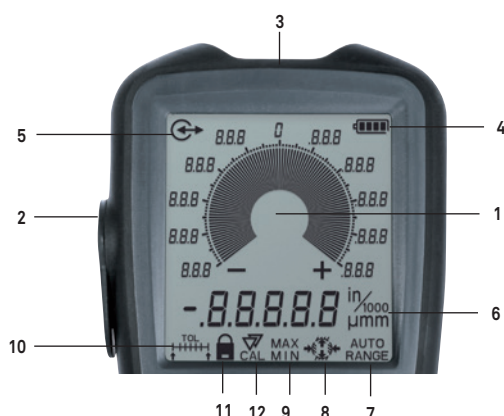
The zoom mode positions the measured value in the middle of the analogue scale and amplifies the value of the scale division by 5-fold. Therefore subsequent light variations around this value become obvious, which is very convenient for mechanical fine adjustment applications.

Remote control

With TLC-USB cable connected, TWIN-T10 can be operated remotely from a computer. Bidirectional communication allows data to be sent from the instrument to the computer or to send ASCII commands from the computer to the TWIN-T10. A foot switch can also be connected to the jack connector of TWIN-T10.

Exceptional autonomy

The very low-energy consumption of the TWIN-T10 enables an exceptional operational autonomy of up to 400 hours. The instrument automatically turns off after 10 minutes when not in use.



- 1 Analogue display
- 2 Probe and external command connectors
- 3 TLC connector for data transfer
- 4 Battery level
- 5 Send data
- 6 Metric or imperial unit
- 7 Auto range mode of the display scale
- 8 External or internal measurement
- 9 «MAX», «MIN», «MAX - MIN» memory
- 10 Measure with tolerance
- 11 Locked keypad
- 12 Calibration (CAL +) or auto-calibration (CAL)



Overall Dimensions



340 – 400 h



IP63



TOL



MIN, MAX, MAX-MIN



Zeroing

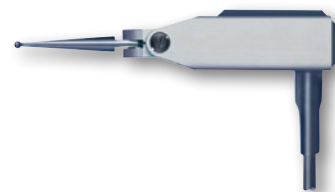
TECHNICAL DATA

	TESA TWIN-T10 portable display	
Order number	04430013	
Function	Display for TESA Inductive Probe	
Number of probe entry	1	
Display scales	$\pm 5, \pm 2 \text{ mm}$	$\pm 250 \pm 100 \text{ in/1000}$
	$\pm 500, \pm 200 \mu\text{m}$	$\pm 25 \pm 10 \text{ in/1000}$
	$\pm 50, \pm 20 \mu\text{m}$	$\pm 2.5 \pm 1.0 \text{ in/1000}$
	$\pm 5 \mu\text{m}$	$\pm 0.25 \text{ in/1000}$
	Auto Range	Auto Range
Resolution	1 0.1 μm	0.010 0.005 in/1000
Functions	Zeroing (Offset) +A, -A MAX, MIN or MAX-MIN memorization value Measurement with tolerances	
Unit	Metric (mm, μm) or inch (in/1000)	
Autonomy	340 – 400 hours	
IP rating	IP63	
Deviation span of indication *	$\leq 1\%$ of the measuring scale	
Drift of zero point on the full measuring range *	$\leq \pm 0,005\% / ^\circ\text{C}$	
Response time	$\leq 100 \text{ ms}$	
Frequency limit	10 Hz (relative to the input signal)	
Oscillator frequency	13 kHz	
Digital output	RS232 through TLC connector	
Data format	7 bits ASCII code	
Power supply	4x AA LR6 batteries	
Assigned operating T°C	$+20^\circ\text{C} \pm 1$	
Operating T°C range	$+10$ to $+40^\circ\text{C}$	
Storage T°C range	-10 to $+60^\circ\text{C}$	
EMC compatibility	according to 2004/108/EC according to EN 61326-1 annex A	
Others: RoHS 2 REACH WEEE	according to 2011/65/EU according to EC 1907/2006 according to 2002/96/EC	
Dimensions	170 x 100 x 38 mm	
Weight	410 g / 500 g	
Delivery contents	TWIN-T10, user manual, 4x AA batteries	

* at 20°C , RH $\leq 50\%$

OPTIONAL ACCESSORIES

03210802	GT 31 lever probe
04768000	Hand switch 1,8 m
04768001	Foot switch 1,8 m
04760181	TLC-USB data cable 2 m
04760182	TLC-DIGIMATIC data cable 2 m
04760180	TLC-TWIN wireless transceiver
05030012	TWIN-STATION receiver Connection to PC via a USB port Powered through USB port USB cable included
04981001	DATA-DIRECT Software Software for data acquisition, data export as .csv-files With USB dongle
04981002	STAT-EXPRESS Software Software for creating measuring protocols, real-time control charts X-R, statistics, measuring reports With USB dongle
01460008	Back support with centered lug
01460009	Back support with off-centered lug
S41078751	$\pm 1000 \mu\text{m}$ dummy probe for calibration
S41078752	$\pm 1900 \mu\text{m}$ dummy probe for calibration



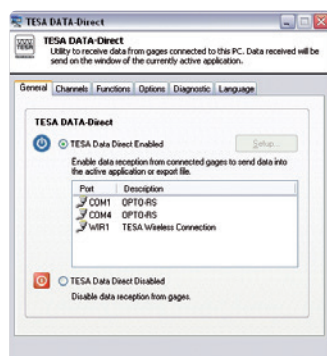
GT 31 lever probe



TLC-USB cable



Foot switch



DATA-DIRECT software



DATA-DIRECT CD



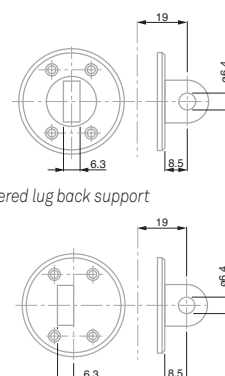
$\pm 1900 \mu\text{m}$ dummy probe



TWIN-T10 with hand switch



TWIN-T10 with back support



Centered lug back support

Off-centered lug back support

WWW.TESAGROUP.COM

TESA SA Switzerland
Bugnon 38
CH-1020 Renens
Vente Suisse
Tel. +41 (0)21 633 16 00
Fax +41 (0)21 633 17 57

tesa-ventech@hexagonmetrology.com

TESA FRANCE SAS
4 rue Antoine Lavoisier
Pôle Lavoisier – Bâtiment A
F-54300 Moncel-lès-Lunéville
Tel. +33 (0)3 83 76 83 76
Fax +33 (0)3 83 74 13 16

tesa-france@hexagonmetrology.com

TESA Technology Deutschland GmbH
Netzstraße 32
D-71638 Ludwigsburg
Tel. +49 (0)7141 8747 0
Fax +49 (0)7141 8747 88

tesa-de@hexagonmetrology.com

TESA Technology UK Ltd.
Metrology House
Halesfield 13
Telford, Shrops. TF7 4PL
Tel. +44 1952 681 349
Fax +44 1952 681 391

tesa-uk@hexagonmetrology.com

TESA Technology ITALIA s.r.l.
Via Bizzozzero, 118
IT-20032 Cormanico (MI)
Tel. +39 02 663 053 69
Fax +39 02 663 090 82

tesa-italia@hexagonmetrology.com

TESA PRECISION TECHNOLOGY (SUZHOU) CO., LTD. (TPTS)
C2-203 Genway I-Park Dongchang
Road 88, Suzhou Industrial Park,
Jiangsu, China, 215028
Tel. +86 512 8766 8512
Fax +86 512 8766 8508
tesachina@hexagonmetrology.com

TESA Benelux
Van Eiderenlaan 1
NL-5581 WJ Waalre
Tel. +31 (0)40 222 06 08
Fax +31 (0)40 222 17 16

tesa-benelux@hexagonmetrology.com

TESA SA – Bugnon 38 – CH-1020 Renens – Switzerland – Tel. +41(0)21 633 16 00 – Fax +41(0)21 635 75 35 – www.tesagroup.com – tesa-info@hexagonmetrology.com

All modification rights reserved – 4412.047.1512