





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 softtouch 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
- Alignement 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
- 9 «MAX», «MIN», «MAX MIN» memory10 Measure with tolerance
- 11 Locked keypad
- 12 Calibration (CAL + 🔊) or auto-calibration (CAL)



Overall Dimensions

340 - 400 h

IP63



Zeroing

TECHNICAL DATA

	TESA TWIN-T10 portable display				
Order number	04430013				
Function	Display for TESA Inductive Probe				
Number of probe entry	1				
Display scales	±5, ±2mm ± 500, ±200 μm ± 50, ±20 μm ± 5 μm Auto Range	± 250 ± 100 in/1000 ± 25 ± 10 in/1000 ± 2.5 ± 1.0 in/1000 ± 0.25 in/1000 Auto Range			
Resolution	1 0,1 µm	n 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 *	≤1% of the measuring scale				
Drift of zero point on the full measuring range *	≤±0,005%/°C				
Response time	≤100 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 °C ± 1				
Operating T°C range	+10 to +40 °C				
Storage T°C range	-10 to +60 °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				

VVV TESF

* at 20°C, RH \leq 50%

<u>VVV.</u> TESA TECHNOLOG

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	GT 31 lever probe
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	TI C-USB cable
01460008	Back support with centered lug	120 002 0000
01460009	Back support with off-centered lug	
S41078332	±1000 µm dummy probe for calibration	114 Hand
S41078752	±1900 µm dummy probe for calibration	43.







Foot switch



DATA-DIRECT software



DATA-DIRECT CD



6.3 Centered lug back support

6.3

Off-centered lug back support

±1900 µm dummy probe



TWIN-T10 with hand switch

WWW.TESAGROUP.COM

TESA SA Switzerland Bugnon 38 CH-1020 Renens Vente Suisse Tel. +41 (0)21 633 16 00 Ev., 44 (001 623 17 57	TESA FRANCE SAS 4 rue Antoine Lavoisier Pôle Lavoisier – Bâtiment A F-54300 Moncel-lès-Lunéville Tel. +33 (0)3 83 76 83 76	TESA Technology Deutschland GmbH Netzestraße 32 D-71638 Ludwigsburg Tel. +49 (0)7141 8747 0 Fox +40 (0)7141 8747 89	TESA Technology UK Ltd. Metrology House Halesfield 13 Telford, Shrops. TF7 4PL Tel. +44 1952 681 349	TESA Technology ITALIA s.r.l. Via Bizzozzero, 118 IT-20032 Cormano (MI) Tel. +39 02 663 053 69 Few. +39 02 665 000 92	TESA PRECISION TECHNOLOGY (SUZHOU) CO., LTD. (TPTS) C2-203 Genway I-Park Dongchang Road 88, Suzhou Industrial Park, Jiangsu, China, 215028 Tu, Jos C 40 2020 PE12	TESA Benelux Van Elderenkaan 1 NL-5581 WJ Waalre Tel. +31 (0)40 222 06 08 Few. +31 (0)40 223 15
tesa-ventech@hexagonmetrology.com	tesa-france@hexagonmetrology.com	tesa-de@hexagonmetrology.com	tesa-uk@hexagonmetrology.com	tesa-italia@hexagonmetrology.com	Fax +86 512 8766 8508 tesachina@hexagonmetrology.com	tesa-benelux@hexagonmetrology.com

TWIN-T10 with back support

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