

TESATRONIC® Length Measuring Instruments General Overview

Dedicated compact units having either an analog or a numerical display. Used in association with hand-held measuring instruments or on stationary devices for shop floor inspection and maintenance as well as in the measuring room.



		TESATRONIC	TT 10	TT 20	TT 60	TT 80	TTA 20
			44.30008	44.90003	44.90004	44.90005	44.30003
			41239	87357	87358	27550	41234
	Probe input	number	1	2	2	2	2
	automatic recognition		no	yes	yes	yes	no
	Measuring range	number	3	7	7	9	6
	minimum		± 5 µm	± 5 µm	± 5 µm	± 0.5 µm	± 3 µm
	maximum		± 500 µm	± 5000 µm	± 5000 µm	± 5000 µm	± 1000 µm
	zoom function (5x)		yes	no	no	no	no
	automatic switching		yes	yes	yes	yes	no
	Numerical display		yes	yes	yes	yes	no
	Numerical interval	minimum	0.1 µm	0.1 µm	0.1 µm	0.01 µm	
		maximum	10 µm	0.1 µm	0.1 µm	0.01 µm	
	Analog display		yes	yes	yes	yes	yes
	Scale interval	minimum	0.1 µm	0.2 µm	0.2 µm	0.02 µm	0.1 µm
		maximum	10 µm	200 µm	200 µm	200 µm	50 µm
	Metric / inch units		yes	yes	yes	yes	yes
	Value classification		no	yes	yes	yes	yes
		number of classes		3	up to 42	up to 42	3
		signal outputs		yes	yes	yes	yes
	Memory		no	no	yes	yes	no
	Digital output		RS-232	RS-232	RS -232	RS-232	no
	Analog output		no	no	yes	yes	yes
	Power supply		Batteries	Mains adapter	Mains adapter	Mains adapter	Mains power



DIN 32876
Part 1



2.6 x 2.25 in
66 x 57 mm

LC display field



.354 x .177 in
9 x 4.5 mm



Response
time of display
≤ 100 ms.

Hold time ≥ 100 ms.



Zero drift*
≤ ± 0.005% / °C

Frequency limit of display
with reference to signal
input: 10 Hz



Max. display
error*: 2%



± 1 numerical
interval



Opto-coupled
RS-232

compatible out-put



3.5V to 4.5V,
3 batteries type
LRC 6, 1.5V, AA.

Power consumption:
≈ 7 mW / 3.5V

Self-controlled voltage
fluctuation

Drive voltage
of the probe: 0.7V

Drive frequency:
13 ± 0.65 kHz



32 °F to 140 °F



14 °F to 158 °F



80%, with no
condensation



Protection IP42
(IEC 60529)



EN 50081-1,
EN 50081-2,
EN 50082-1, EN 50082-2



3.75 x 6.7 x 2.7 in
95 x 130 x 68 mm
(W x D x H)



1.08 lbs.
(with batteries)



Transport
packing



Identification
number



Declaration
of conformity

* with reference to 68 °F
as well as a relative
humidity of ≤ 50%.

TESATRONIC® TT 10 Electronic Length Measuring Instrument

Pocket-sized, battery-operated electronic instrument for use on the move –
Ideally suited for your measurement tasks on the surface plate, in the inspection
room right next to the production floor or directly on the machine –
Provides full portability where there's no room for a cumbersome power cable.

- Simple-to-use function keys used in conjunction with the combined analog/numerical indication providing easy reading.
- LCD, pointerless display field for high repeatability and negligible hysteresis.
- 3 measuring ranges, switchable manually or automatically depending on the size of the measured value.
- Inch and metric conversion.
- Additional signal amplification (5x) for easy display setting.
- Quick zero-setting thanks to digital technology.
- Signal input for one probe.
- RS-232 compatible digital-output, opto-coupled.



44.30008



41239



TESATRONIC TT 10

Electronic measuring instrument with
analog and numerical display;
3 measuring ranges switchable from metric
to inch; 1 probe input; RS-232 output.

Provided with the following accessories:

- 3 Batteries, 1.5V, type LRC 6, AA
- 1 Visual template for value classification

Optional accessories:

- 47.68000 41299 1 Hand Switch
- 47.68001 41300 1 Foot Switch
- 47.61022* 41270 1 Output Cable – 10 pin
- 47.61023* 41271 1 Cable to PC-AT RS-232 (9 pin male)
- 47.61024* 41272 1 Cable to Printer RS-232 (925 pin male)
- 47.61026* 26256 1 Cable to Printer (Seiko DPU201GS)
(9 pin female)

*Cables can be used on all TESATRONIC TTD Measuring Instruments equipped with the new opto-coupled RS-232 output card.



Measuring ranges and numerical interval

	Zoom Function	Used for	μm	mm	in	in
1	without	measuring	± 500	10	± 0.025	0.0005
	5x	setting	± 100	2	± 0.005	0.0001
2	without	measuring	± 50	1	± 0.0025	0.00005
	5x	setting	± 10	0.2	± 0.0005	0.00001
3	without	measuring	± 5	0.1	± 0.00025	0.000005