

**N** DIN 32876  
Part 1

110 mm scale length

6-decade display  
plus minus sign

12,5 x 6,6 mm

126 x 62 mm  
LCD display,  
with 50 scale  
divisions

Limit value for a  
temperature of  
20°C and a relative  
humidity of  
≤ 50 %:  
Analog display: 2 %  
Digital display:  
0,15 %  
Analog output:  
0,3 %  
Digital output:  
0,15 %

± 1 digital interval

255 x 235 x 120 mm  
(W x D x H)

Resistant plastic

## TESATRONIC TT 80 and TT 90 Probe Display Units

High resolution display units

Combined analogue/digital display

Two probe inputs for single, sum and difference measurements.

In addition to TESATRONIC TT60 functions, TT 80 has the following additional functions:

- 9 measuring ranges with digital steps of 0,01 µm or 0.000001 in.
- Memorisation of extreme values "max.", "min.", "max. minus min." as well as the mean of the two values "max." and "min."
- Dynamic measurement with acquisition of more than 10 single values per second.
- Classification of measured values with a contact relay providing output signals for 5, 10, 20 or 40 acceptable classes.
- Analogue output for external processing of signals.

In addition to TESATRONIC TT60 functions, TT 90 has the following additional functions:

- 9 measuring ranges with digital step of 0,01 µm or 0.000001 in.
- Memorisation of extreme values "max.", "min.", "max. minus min." plus the mean of both values "max." and "min."
- Dynamic measurement with acquisition of more than 10 single values per second.
- Classification of measured values with output signals through contact relay for 5, 10, 20 or 40 acceptable classes.
- Analogue output for external signal processing.
- Output for bolt retraction control.
- Selection of stabilisation time for measuring cycles.
- RS digital output for values to the micron.



TT 90



TT 80



Application: TT 80 with a SIP (Société genevoise d'instruments de physique) high precision measuring bench

			Measuring range zoom x5	Memory
04430011	TESATRONIC TT80	High precision electronic display	-	●
04430012	TESATRONIC TT90	High precision electronic display	-	●

		Number of probes inputs	Automatic conversion of range
TESATRONIC TT80 High precision electronic display		2	●
TESATRONIC TT90 high precision electronic display		2	●



**DELIVERED WITH THE FOLLOWING ACCESSORIES:**

<b>04761054</b>	Battery charger 100 ÷ 200 VAC / 50 ÷ 60 Hz, 6,6 V DC, 750 mAh, supplied without power cable
<b>04761055</b>	Mains cable EU for charger 0471054

**OPTIONAL ACCESSORIES:**

<b>04768000</b>	Hand switch for manually triggering data transfer. Jack plug connector, 1,8 m - TESA SPC PRINTER printer - TESATRONIC TT display units
<b>04768001</b>	Foot switch for triggering data transfer. Jack plug, 1,8 m - TESA SPC PRINTER printer - TESATRONIC (TT) display units
<b>04761062</b>	Opto-USB cable, Duplex, 2m Bidirectional communication
<b>04761049</b>	Opto-RS cable, Duplex, 2m Bidirectional communication



For a temperature of 20°C and a relative humidity of ≤ 50 %: Response time analogue, digital and LED displays classification: ≤ 100 ms. Holding of digital display: 100 ms. Response time of the analogue output signal in relation to analogue display: ≤ 30 ms.



For a temperature of 20°C and a relative humidity of ≤ 50 %: Zero drift and signal amplification: ≤ 0,005 %/°C. No drift of stored values. Frequency limit for all displays frequency, analog output and memory in relation to input signal: 10 Hz



RS232 opto-coupled output



Voltage range of ± 2 V to ± 10 V. Output current: ≤ 2 mA. Load adjustment: ≥ 5 kΩ. Background noise (probe to 0 electric) ≤ 1 mV. Reference potential: analog ground 0 V



6,5 Vdc up to 7,3 V DC. Consumption: 2 W. Monitored voltage fluctuation. Supply voltage for probe: 3 V



Protection of frontal face: IP54 (IEC 60529, DIN 40 050)



IEC/EN 61326-1  
USA: CFR47, Part 15, Subpart B, Class B, Digital Device



1,1 kg

