



Weld-Tester TE 1600

Version: 01-2011



Current, time and force measuring instrument "WELD TESTER" TE 1600

- portable instrument
- AC: measures the true effective value (RMS), maximum value and average value
- measures the conduction angle in degrees
- measures the welding time in cycles, in 1/2 cycle steps
- PEAK-measuring: the positive and negative maximum value is for direct reading
- DC: measures the positive or negative values
- stores the value measured during the last 10 welds
- measures the welding force: it displays the maximum force value, the value at the beginning and at the end of the welding time
- the instrument can be connected to a PC in order to display and store the measured data
- BNC output to display the current wave-shape on oscilloscope
- supply by means of alkaline batteries 4 x 1.5 V (size AA)

Order-number: XG1.010.009

Accessories for the Weld-Tester TE 1600:



Force transducer

for measuring the electrode force

1661 up to 200 daN / 440 lb with 2 m cable, 22 mm (Order-No.: **XG1.010.014**)

1662 up to 2000 daN / 4400 lb with 2 m cable, 22 mm (Order-No.: **XG1.010.012**)

1663 up to 10000 daN / 22400 lb with 2 m cable, 70 mm (Order-No.: **XG1.010.016**)



Force transducer

for measuring the electrode force with reduced overall dimensions

1673 up to 200 daN / 440 lb with 2 m cable, 10 mm (Order-No.: **XG1.010.**)

1675 up to 1200 daN / 4400 lb with 2 m cable, 10 mm (Order-No.: **XG1.010.011**)



Pressure transducer

for measuring the contact pressure

1664 up to 10 bar / 145 Psi / 1 Mpa (Order-No.: **XG1.010.018**)



Flexible transducer

for measuring the welding current

1635 with diameter 160 mm and 2 m cable (Order-No.: **XG1.010.010**)

1636 with diameter 270 mm and 2 m cable (Order-No.: **XG1.010.013**)

We reserve the right to make changes which are in the interest of technical progress.

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Measuring range from the flexible transducer:

RMS	200 - 50 - 20 - 5 - 2 kA (with sinus valve)
PEAK	280 - 70 - 28 - 7 - 2,8 kA
DC	250 - 62 - 25 - 6,2 - 2,5 kA DC
Time	max. 99,5 cycles (welding time) max. 999 cycles (continuous measuring)
Minimum measuring	(range 2 kA RMS) is 150 A
Peak measuring	(range 2,8 kA) is 200 A

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Measurements:

Alternate current (AC) and direct current (DC).
Active current (RMS) maximum and average value.
Welding time in cycles with a precision of 1/2 cycle in AC-mode.
Maximum current value from a welding (PEAK) max. positive and negative value.
Phase angle in Grad.
Direct current real component maximum and average value.
Direct current welding time (DC) with a precision of 1 millisecond.
Direct current starting ramp response.
Pulse welding in DC or AC.
Maximum starting and end welding force.

Further features:

Selection of device for the measuring of force and pressure in the international and US-System.
Languages: German, English, French, Italian and Spanish.

Technical data:

Dimensions (WxLxH)	100 x 190 x 50 mm
Weight	500 g
Power values:	
RMS AC	2 - 20 - 200 kA
PEAK AC	2,8 - 28 - 280 kA
RMS DC	2,8 - 28 - 280 kA
AC Time	max. 99,5 cycles (welding time)
DC Time	max. 1000 ms
Force	high (x1), low (x0,2)
Precision RMS	class 1
Precision time	1 ms (DC) or 0,5 cycles (AC)
Durability from the alkaline batteries	80 up to 180 hours
Operating temperature	5°C up to 40°C
Operating height	up to 2000 m
Degree of protection	IP40

Order-number: **XG1.010.009** (without flexible transducer and pressure transducer)

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Weldtester-2