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POWERED BY:

WSI



WELD  
SYSTEMS  
INTEGRATORS, INC.

RESISTANCE WELDING. SOLVED.

## TESTER and GAUGES

TECNA TE1600/RS232 WELD TESTER and  
ANALOG HYDRAULIC WELD FORCE GAUGES

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TECNA Pedestal Welders, Portable Spot Welding Guns, Bench Welders,

Tool Balancers, Accessories, Spare Parts, Service and Support!

## TE1600/RS232 MULTIFUNCTION MEASUREMENT INSTRUMENT FOR RESISTANCE WELDERS

The **TE1600/RS232 "WELD TESTER"** is a portable instrument purposely designed for measuring the parameters of resistance welding.

By using the RS232 port and by means of a female DB9 serial cable, the measurement instrument may be connected to a PC for displaying and recording the measured data. Our TE1600/RS232 transfers the data acknowledged by the PC after each measurement automatically, without needing to press any button. By using probes of different kind, the same instrument enables to measure both the welding current and the force at the electrodes. The power of the 32-bit microprocessor and the accuracy of the 12-bit A/D converter make the instrument a highly performing one.

It is suitable for measuring on standard machines in alternate current (AC), direct current three-phase rectified and medium frequency machines (DC) and capacitor discharge machines:

- AC:** measures the true effective value (RMS), maximum value and average value;  
measures the peak value: positive and negative values;  
measures the conduction angle in degrees;  
measures the welding time in cycles, in 1/2 cycle steps.
- DC:** measures the average value, the maximum value and the welding time in ms.
- CD:** measures the welding time in ms;  
measures the current true effective value (RMS);  
measures the current slope up time;  
measures the maximum RMS current value;  
measures the current slope down time;

Pre- and post-blanking function with programmable time gap; it prevents the measurement errors when the slope function is used and it allows the checkout of the correct first insertion delay.

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.

Blanking function, it prevents the measurement errors due to high impact force and it allows to estimate the latter.

Wide availability of measurement transducers.

Automatic recognition of the connected sensor.

BNC output to display the current wave-shape on oscilloscope. Also, the instrument can be equipped with a suitable probe for pressure measurement. This is useful for periodical checkout of manometers calibration. Supply by means of alkaline batteries 4x 1.5 V (size AA).



RS232



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## ACCESSORIES FOR TE1600 / RS232 MULTIFUNCTION MEASUREMENT INSTRUMENT



1600 / RS232



47331



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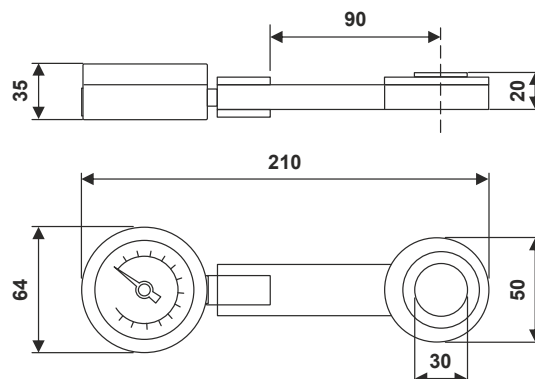


## TE1600 / RS232 PART NUMBERS AND DESCRIPTIONS

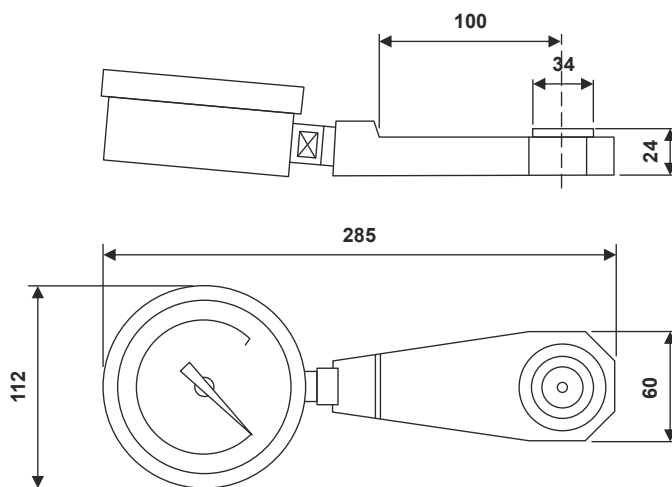
TE1600 / RS232 PART NUMBERS AND DESCRIPTIONS		
 1600 / RS232	1600 RS232	Analyzer TE1600 equipped with RS232 port for printer complete with carrying case and certificate
 47331	47331	Carrying case
 1631 / 1632	1631	Rigid current transducer coil Ø min 32-36 max mm with cable L=2 m max
	1632	Rigid current transducer coil Ø min 40-45-46 max mm with cable L=2 m max
 1633	1633	Rigid current transducer coil Ø max 80 mm with cable L=2 m max
 1635 / 1636 / 1637	1635	Flexible transducer Ø 160 mm with cable L=2 m max
	1636	Flexible transducer Ø 270 mm with cable L=2 m max
	1637	Flexible transducer Ø 270 mm with cable L=2 m max, sensitivity x0,2
 1661 / 1662	1661	Force transducer 200 daN 440 lb with cable L=2 m
	1662	Force transducer 2.000 daN 4.400 lb with cable L=2 m
 1673 / 1675	1673	Force transducer with reduced overall dimensions 200 daN 440 lb with cable L=2 m
	1675	Force transducer with reduced overall dimensions 1.200 daN 2.640 lb with cable L=2 m
 1663	1663	Force transducer 10.000 daN 22.000 lb with cable L=2 m
 1664	1664	Pressure transducer 10 bar - 145 psi
 1438	1438	Shielded lead 50 OHM BNC-BNC L=1 m for connecting to oscilloscope
 22414	22414	Female DB9 serial cable for PC COM port

# ITEM 1401N - 1402N - 1403N - 1404N - 1405N HYDRAULIC DYNAMOMETER

## ITEM: 1401N - 1402N - 1403N - 1405N



## ITEM: 1404N



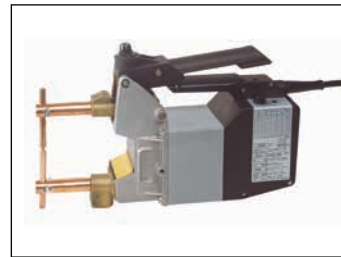
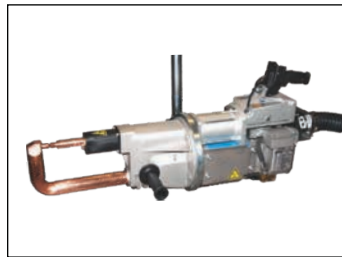
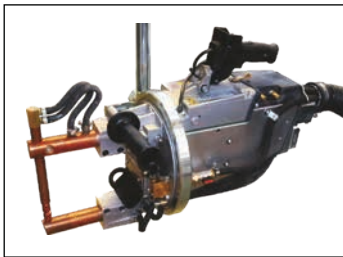
		ITEM 1401N	ITEM 1405N	ITEM 1402N	ITEM 1403N	ITEM 1404N
Maximum capacity dynamometer	daN	600	1000	1600	3150	5000
Minimum electrode gap	mm	20	20	20	20	24
Operating range		80 ÷ 500	100 ÷ 1000	200 ÷ 1400	400 ÷ 2800	500 ÷ 4500
Insulated force sensor	daN	✓	✓	✓	✓	✓
Gross weight	kg	1	1	1	1	22
Packing	mm	230 x 160 x 120	230 x 160 x 120	230 x 160 x 120	230 x 160 x 120	340 x 250 x 200
Carrying Case		✓	✓	✓	✓	✓

## Weld Systems Integrators (WSI) | **Resistance Welding. Solved.**

Weld Systems Integrators (WSI) is a manufacturer of rugged, innovative, high-quality resistance welding equipment and machinery, and integrator of robotic resistance and MIG welding cells. We also stock resistance welding accessories, parts and supplies, and we support our resistance welding equipment with strong service, training, welding lab testing and contract engineering capabilities.

WSI is a Master Distributor and Stocking Importer for TECNA resistance welding equipment, including spot and projection welders, portable guns and balancers. We keep an inventory of TECNA equipment in stock at our Warrensville Heights location for quick shipment and delivery.

WSI is proud to be a Sustaining Member of the American Welding Society (AWS), the Resistance Welding Manufacturing Alliance (RWMA), as well as WEMCO, an Association of Welding Equipment Manufacturers.



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