

## Mobile measuring instrument of resistance welding systems 1600-S current and force measurement

This gauge ensures the quality of their production and demonstrates the correct function of the welding system. Ideal use for setting up or samples.

For the measurement of welding current and electrode force

It is suitable for measurement of:

- alternating current machines (AC),
- direct current three-phase machines(DC)
- medium frequency machines (DC)
- capacitor-welding machines (CD)



### Technical Details 1600-S (51-041-041)

- pre- and post-blanking function
- stores the value measured during the last 10 welds
- representation the current wave-shape on oscilloscope
- representation the force wave-shape on oscilloscope
- including carrying case, independent battery operation
- including flexible transducer with 270mm diameter
- Data Interface RS-232

### Options

- serial cable for PC COM port (51-041-015)
- force transducer up to 200daN
- force transducer up to 2.000daN
- force transducer up to 10.000daN

### Display

Direct- and Alternating current: Current, Welding time and Conduction angle

Electrode force: Maximum starting and end welding force

### Measuring ranges

Current: 2,0 - 20 - 200kA Active current (RMS)  
2,8 - 28 - 280kA Max. current (Peak)  
2,8 - 28 - 280kA Direct current (DC)

Welding time: in cycles (AC) 0,5-99,5Per  
in ms (DC) 1-1000ms

Electrode force: up to 10.000daN  
(depends on force transducer)



up to 200daN (51-041-044)  
up to 2.000daN (51-041-046)  
(flat type)



up to 1.200daN (51-041-047)  
(reduced diameter)



up to 10.000daN (51-041-048)