



Measuring instrument 356A/B

Version: 01-2011

Analyze and optimize resistance welding processes with the 356A/B measuring instrument

- progression curve display
- joint representation of current and force progression
- printout of data and progression curves with thermal printer
- clear display
- battery for data recording without mains supply
- statistical evaluation of all stored data
- lowest electrode stroke 21 mm

Current and force sensing device WMA-500A and WMA-1000A

- simultaneous measurement of current and force
- simple measurement without changing electrodes
- force measurement up to 500 daN or 1000 daN
- suitable for setting proportional valves



the following measurements can be carried out:

- welding current
- welding voltage
- welding time
- electrode force, pre and post holding time
- time measurement in periods and milliseconds

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

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Measuring instrument 356-1



Measuring instrument 356A/B

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Connection:	230 V \pm 10%, 50/60 Hz (automatic recognition)
Battery operation:	12 V; 2.2 Ah battery (no print function)
Current measurement:	2 measurement ranges: 1.00 to 19,99 kA and 10.0 to 199,9 kA RMS actual current value over total measurement time PEAK peak current value of total measurement time
Measurement sensor:	flexible measurement belt, length 800 mm
Voltage measurement:	0.50 V to 9.99 V (one measurement range)
Time measurement:	0.5 to 99.5 periods or 000 to 999 ms
Force measurement:	50 to 950 daN
Phase angle (at AC):	0 to 180°
Setting interval:	cut out up to 99 periods or 1 to 999 ms Special feature "last period minus 1" (cut out last period)
Monitoring:	15 programs current 00.00 to 19.99 kA or 000.0 to 199.9 kA voltage 0.00 to 9.99 V time 00.0 to 99.5 periods or 000 to 999 ms
Counter feature:	from 1 to 99.999 welds programmable
Interfaces:	RS-422 (Option); RS-232 (Option)
Thermal printer:	printout of measurement and program data, date, time, current, voltage, electrode force progression curves, histogram of measurement values
Printer speed:	16 lines / sec.
Ambient temperature:	0 to +40° C
Dimensions:	269 (H) x 172 (W) x 315 (D) mm
Weight:	7 kg (without accessories)

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Measuring instrument 356-2