

- Measures current, voltage, force and displacement
- Set limits for all parameters
- Comprehensive machine I/O
- Easy screen-menu navigation
- Built-in printer and RS232/485 output



Measure current, voltage, force and displacement

Understand, optimize and benchmark your process and equipment

Weld-through sensor

Measure force, current and voltage simultaneously directly at the electrodes

Set limits and machine I/O

Instant feedback regarding process drift or weld issues

Easy screen navigation

Scroll through and select menus with rotary dial

Waveform and data analysis

Precise graphical displays of waveform time and amplitude

Built-in printer and RS232/485 output

Instant screen prints, out-of-limit record and waveforms. Color screen capture and data collection through COM port



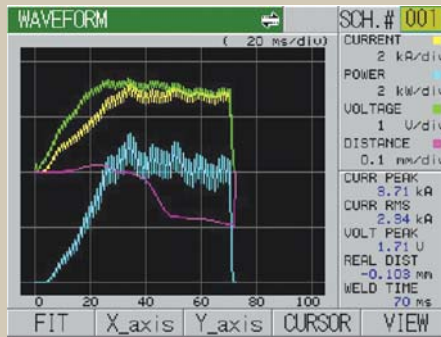
Complete Summary Data



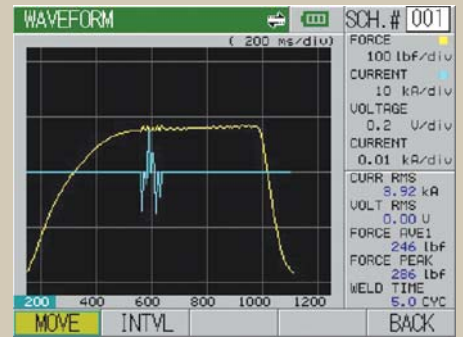
Current and Displacement Timing



Drop-down Menu Navigation



Overlay Multiple Waveforms



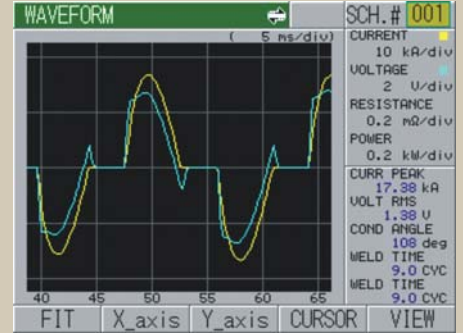
Force and Current Timing



I/O Conditions



Set Limits



Zoom of Current and Voltage

ACCESSORIES



Coils



Displacement Sensor



MA770 and 771 Weld Thru Sensors

SPECIFICATIONS

Current Range	0.010 to 200.0kA
Force Range (MM-370A-00-01 Only)	MA-770A-01: 55 to 1102 lbf, (25 to 500 kgf) MA-771A-01: 110 to 2204 lbf, (50 to 1000 kgf); MA-520: 1.10 to 22.04 lbf, (0.50 to 10.00 kgf) MA-521: 11.0 to 220.4 lbf, (5.0 to 100.0 kgf); MA-522: 110 to 2204 lbf, (50 to 1000 kgf)
Displacement Range	GS-1613A: 0 - 10mm, 1 micron accuracy; GS-1630A: 0 - 30mm, 1 micron accuracy GS-1000A: 0 - 100mm, 10 micron accuracy
Voltage Range	0.30 to 20.0 Volts
Current Measurement Time	AC Current, Cycles: 0.5 to 600.0 Cycles at 60 Hz ; AC Current, ms: 1 to 2000 ms DC Current, Cycles: 0.5 to 120.0 Cycles at 60 Hz; DC Current, ms: 1 to 2000 ms
Force Measurement Time	1 to 6000 ms
Measurement Mode for Voltage and Current	Arithmetic Mean RMS or Maximum, (Peak)
Data Output	Data can be aquired using the built-in printer or standard RS-232/RS-485 port.
Number of Schedules	127
Dimensions Inches (mm) H x W x D	10.6 x 6.8 x 11.4 (269 x 172 x 290) Excluding Protrusions
Weight Lbs (kg)	11 (5)
Power Requirements	100 to 240 VAC, 50/60Hz, 0.7 Amps

Your Local Representative

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