



# MM-380A

## Handheld Weld Checker

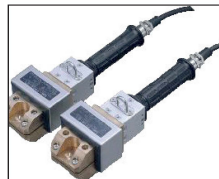
- Battery operated handheld weld checker for quality control of welding applications
- Compact, economic and multi-functional device
- Measures current, voltage, welding time, weld force and displacement\*
- MM-380A can be used with single-phase AC type, DC inverter type, AC inverter type and transistor type
- Easy operation: Turn the dial to scroll and move a cursor. Press the dial to select.
- Clear color LCD: 320 x 240 dots and 4.7 inch sized color LCD
- Various displays: Easy-to-check various waveforms
- FIT function: Possible to move and zoom
- Multilingual software: English, German, French and Spanish
- Memory and output:
  - Measured values and waveforms can be saved in a built-in memory
  - Measured data can be sent to a PC through RS-232C
  - Measured data can be printed out to a dedicated printer

### CONFIGURATION OPTIONS

The MM-380A is designed to check weld current, welding time, voltage and weld force with a compact easy to operate handheld unit which perfectly meets the needs of various industries such as Automotive, Electronics, Batteries, Medical, IT&Multimedia and Aerospace.

The MA-710A/MA-711A weld through sensor is capable of simultaneous measuring of weld force and weld current. A dedicated printer can print out measured data and waveform. The external datacom function can receive and measure voltage signals even from other sensors (+/- 10V at max.). Amada Miyachi Europe recommends a variety of coils such as MB-400K and force sensors upon request.

### TYPICAL APPLICATIONS



Weld Thru Sensor  
MA-710A / MA-711A



Optional printer BL2-58PN-MYT



MB-400K

RESISTANCE WELDING

### TECHNICAL SPECIFICATIONS

<b>Model</b>	MM-380A	
<b>Current</b>	<b>Range</b>	① 0.100 to 2.000 kA ② 0.30 to 6.00 kA ③ 1.00 to 20.00 kA ④ 3.0 to 60.0 kA ⑤ 10.0 to 200.0 kA
	<b>Item</b>	Arithmetic mean RMS / PEAK
	<b>Accuracy*</b>	When in range of ①, ③ or ⑤: +/- (1%rdg+9 to 20dgt) When in range of ② or ④: +/- (1%rdg+3 to 7dgt)
<b>Voltage</b>	<b>Range</b>	⑦ 0.30 to 6.00 V ⑧ 1.0 to 20.0 V
	<b>Item</b>	Arithmetic mean RMS / PEAK
	<b>Accuracy</b>	+/- (1%rdg + 3dgt)
<b>Welding time</b>	<b>Range</b>	AC mode: 50 Hz: 0.5 to 500.0cyc / 60 Hz: 0.5 to 600.0cyc DC mode: 1 to 2000 ms
	<b>Force</b>	4.90 to 98.06N (MA-520), 49.0 to 980.6N (MA-521) 490 to 9806N (MA-522), 245 to 4903N (MA-770A), 490 to 9806N (MA-771A)
<b>Force</b>	<b>Range</b>	4.90 to 98.06N (MA-520), 49.0 to 980.6N (MA-521) 490 to 9806N (MA-522), 245 to 4903N (MA-770A), 490 to 9806N (MA-771A)
	<b>Time</b>	1 to 6000 ms
	<b>Accuracy</b>	+/- (F/S error of loadcell +2%rdg +29dgt)
<b>Conduction angle measurement</b>	0 to 180 degree (Only for CYC mode)	
<b>Number of schedule</b>	127	
<b>Printer*</b>	BL2-58PN-MYT**	
<b>Bidirectional communication</b>	Measured data read and write: waveform, measuring results, schedule, report of weld cycles and forces, screen copy	
<b>Displacement value indication</b>	Normal mode: + (plus) indication Reverse mode: - (minus) indication	
<b>Power requirements</b>	DC9 V (AC adapter: Single phase, 100 to 240 VAC +/-10%, 50/60 Hz)	
<b>Power consumption</b>	Approx. 20 W	
<b>Weight</b>	Approx. 900g	

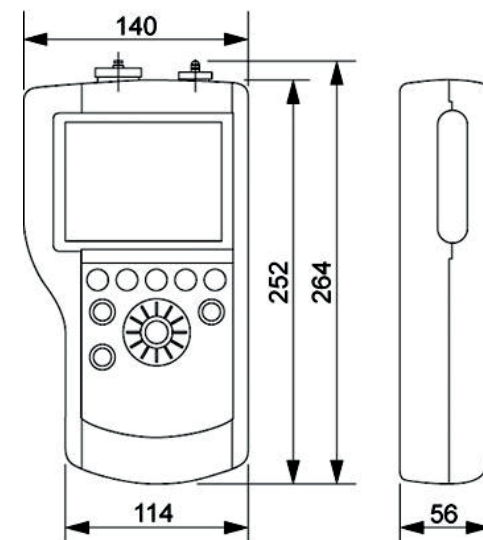
\*Dependent on the power supply system

\*\*Option

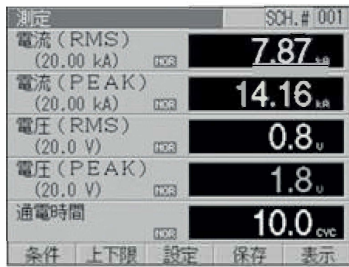
### WEIGHT & DIMENSIONS

MM-380A = 900g

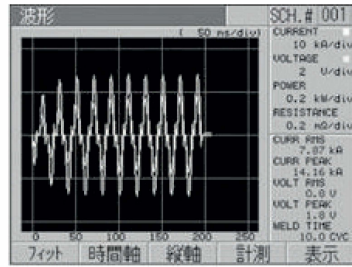
Dimensions in mm



DISPLAY (4.7 INCH COLOR LCD)



Measured values



Waveforms