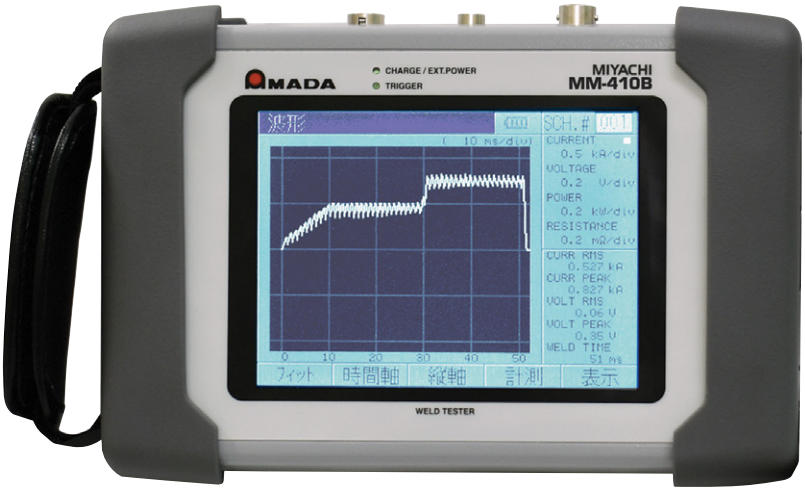


MM-410B

Handheld Resistance Weld Checker

MM-410B enables operators to monitor and manage key welding variables that result in changes in weld heat such as current, voltage, time, and force. The compact, handheld unit supports a wide range of resistance welding technologies including AC, DC inverter, AC inverter, transistor and capacitive discharge. It features a simple and intuitive user interface and color touch panel display.

MEASURE
Current, voltage, weld time, force and conduction angle

KEY FEATURES

- Improved accuracy through ISO 17657 compliant torroidal coil
- Easy setup via 5.7" color touch panel
- Seam welding mode – Monitor AC current and voltage or DC voltage for up to 5 minutes
- ISO 17657 – compliant measurement for current – Requires ISO-compliant toroidal coil
- Data storage via on-board flash drive
- Ethernet (TCP/IP), and USB communication
- Multi-language support: English, Spanish, Japanese, Chinese, Korean, German and French

COMMON APPLICATIONS:

PROCESS DEVELOPMENT

- Correlate waveform and numeric data with process results
- Provides detailed weld data for process optimization and validation

PRODUCTION ENVIRONMENT

- **Reduces scrap –** Detects drifts in the weld process and alerts operators before process failure
- **Reduces frequency of destructive testing –** Welds that pass the set parameter limits indicate the process is in control
- **Independent monitoring of welding power supply –** Detects drifts in welding power supply calibration.

ACCESSORIES (SOLD SEPARATELY)



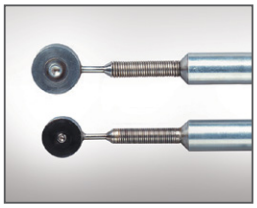
Toroidal coil
MB-400P
(ISO 17657-compliant)



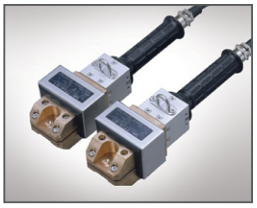
Toroidal coil
MB-800P
(ISO 17657-compliant)



Toroidal coil
MB-45G *(10x sensitivity)*
(current coil adapter cable 4-41574-01 is required)



Force sensors
Top: MA-522B
Bottom: MA-521B / MA-520B



Current / force sensor
MA-770A / MA-771A
(conversion cable SK-1213253 is required)

TECHNICAL SPECIFICATIONS

			1x Sensitivity toroidal coil: 0.100 - 2.000 kA / 0.30 - 6.00 kA / 1.00 - 20.00 kA / 3.0 - 60.0 kA / 10.0 - 200.0 kA		
			10x Sensitivity toroidal coil: 0.010 - 0.200 kA / 0.030 - 0.600 kA / 0.100 - 2.000 kA / 0.30 - 6.00 kA / 01.00 - 20.00 kA		
			PEAK / RMS* / Arithmetic mean RMS		±1% Full scale
			0.30 - 6.00 V / 1.0 - 20.0 V		±1% Full scale
			PEAK / RMS* / Arithmetic mean RMS		
			4.90 - 98.06 N (MA-520B), 49.0 - 980.6 N (MA-521B), 245 - 4903 N (MA-770A), 490 - 9806 N (MA-522B, MA-771A)		
			Mean RMS / maximum (peak) Before welding / After welding / Constant		±3% Full scale
			-10 to +10 V / 4 to 20 mA		
			±0.5 to 10 V or 4.8 to 20 mA (5% to 100% of rated setting)		
			Mean RMS / maximum (peak) Before welding / After welding / Constant		±3% Full scale
			V / N / kgf / lbf / °C / °F / Mpa / bar / psi		
			ms - AC CYC - AC CYC***Hz - AC LONG CYC - AC	1 - 5000 ms 0.5 - 250.0 CYC (50 Hz), 0.5 - 300.0 CYC (60 Hz) 0.5 - 200.0 CYC (M050: 50 Hz), 0.5 - 300.0 CYC (M063: 63 Hz), 0.5 - 2000.0 CYC (M500: 500 Hz) 0.5 - 500.0 CYC (50 Hz), 0.5 - 600.0 CYC (60 Hz)	
			CYC - DC ms - DC SHORT ms - DC	0.5 - 100.0 CYC (50 Hz), 0.5 - 120.0 CYC (60 Hz) 1 - 2000 ms 0.50 - 300.00 ms (0.05 ms increment)	
			1 to 10000 ms		±9 degrees
			0-180 degrees		
			Single-phase 100 to 240 V (50/60 Hz) AC adapter output 9 V DC		
			USB / Ethernet (Protocol; TCP/IP)		
			Japanese, English, Chinese, Korean, German, French, Spanish		
			127 schedules		

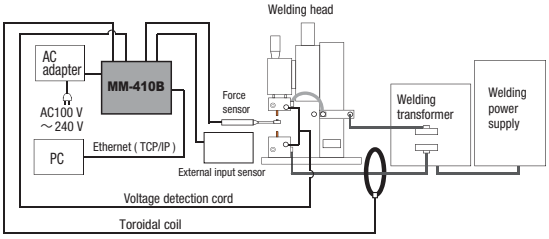
*ISO17657 compliant

WEIGHT & DIMENSIONS

	8.82 in x 1.85 in x 6.18 in (224 mm x 47 mm x 157 mm)
	Approx. 1.98 lb (0.9 kg)







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