



MM-410A - Portable Weld Checker

MM-410A 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

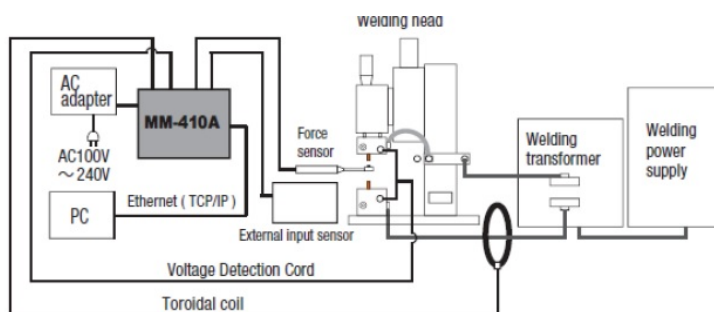
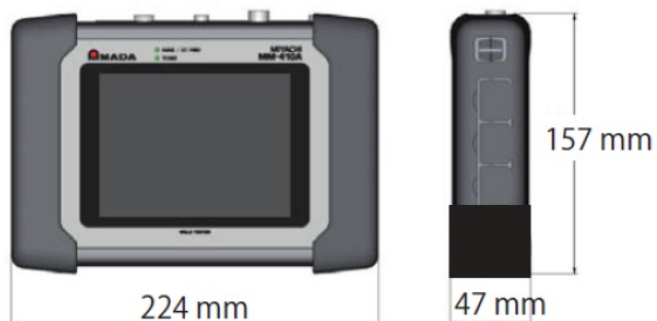
Key Features MM-410A - Portable Weld Checker

- Improved accuracy through ISO 17657 compliant toroidal 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

Specifications MM-410A - Portable Weld Checker

Model	MM-410A
Current range	1×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 - 10 ×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
Current item	PEAK / RMS* / Arithmetic mean RMS - Accuracy ±1% Full scale
Voltage range	0.30-6.00 V / 1.0-20.0 V - Accuracy ±1% Full scale
Voltage item	PEAK / RMS* / Arithmetic mean RMS
Force range	4.90-98.06 N (MA-520B), 49.0-980.6N (MA-521B), 245-4903 N (MA-770A), 490-9806 N (MA-522B, MA- 771A)
Force item	Mean RMS/maximum (peak) Before welding / After welding / Constant - Accuracy ±3% Full scale
External input voltage / current range	-10 to +10 V / 4 to 20 mA
External range	±0.5 to 10 V or 4.8 to 20 mA (5% to 100% of rated setting)
External item	Mean RMS/maximum (peak) Before welding / After welding / Constant - Accuracy ±3% Full scale
External units	V / N / kgf / lbf / °C / °F / Mpa / bar / psi
Measurement time current voltage power resistance AC	ms-AC: 1-5000ms
Measurement time current voltage power resistance AC	CYC-AC: 0.5-250.0CYC (50 Hz), 0.5-300.0CYC (60 Hz)
Measurement time current voltage power resistance AC	CYC***Hz-AC: 0.5-200.0CYC (M050: 50 Hz), 0.5-300.0CYC (M063: 63Hz), 0.5-2000.0CYC (M500: 500 Hz)
Measurement time current voltage power resistance AC	LONG CYC-AC: 0.5-500.0CYC (50 Hz), 0.5-600.0CYC (60 Hz)
Measurement time current voltage power resistance DC	CYC-DC: 0.5-100.0CYC (50 Hz), 0.5-120.0CYC (60 Hz)
Measurement time current voltage power resistance DC	ms-DC: 1-2000 ms
Measurement time current voltage power resistance DC	SHORT ms-DC: 0.50-300.00 ms (0.05 ms increment)
Measurement time force external	1 to 10000 ms Accuracy: ±9 degrees
Conduction angle	0-180 degrees
Power supply voltage	Single-phase 100 to 240 V (50/60 Hz) AC adapter output 9 V DC
External data output	USB / Ethernet (Protocol; TCP/IP)
Languages	Japanese, English, Chinese, Korean, German, French, Spanish
No. of schedules	127 schedules
*	ISO17657 compliant
WEIGHT & DIMENSIONS	
Dimensions (L x W x H)	47 mm x 224 mm x 157 mm (1.85 in x 8.82 in x 6.18 in)
Weight	Approx. 0.9 kg (1.98 lb)

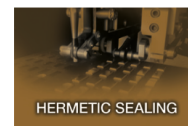
Drawings MM-410A - Portable Weld Checker



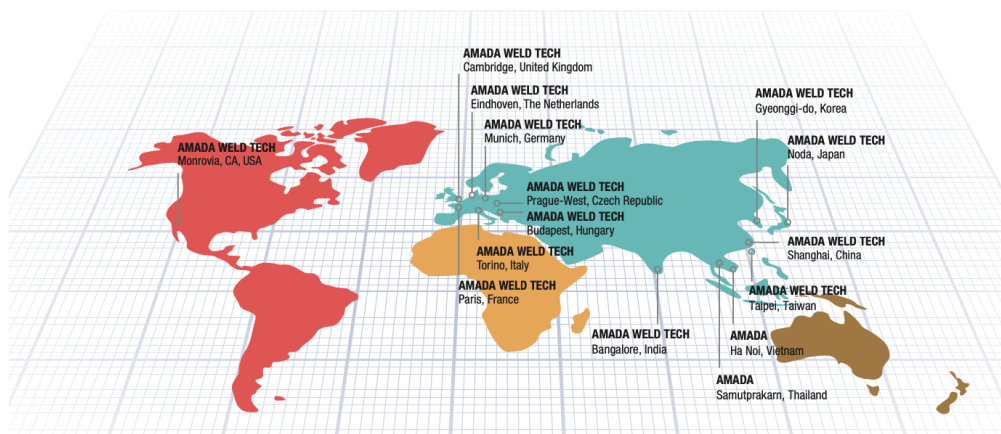
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