



## 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

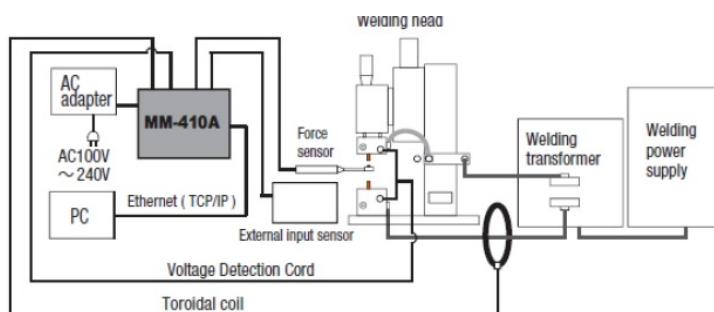
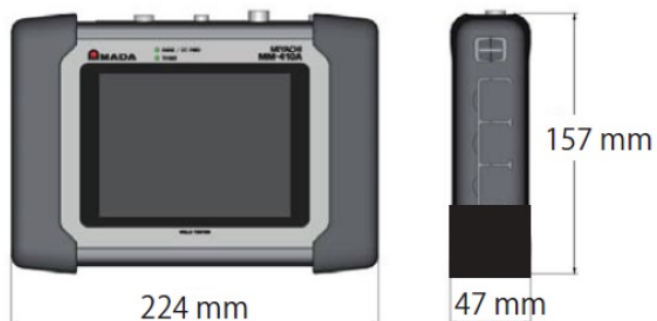
### Key Features MM-410A - Portable Weld Checker

- 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

|                                                         |                                                                                                                                                                                                                                   |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modelo                                                  | 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 -<br>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-<br>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                                                                                                                                                                                                 |
| Rango de fuerza                                         | 4.90-98.06 N (MA-520B), 49.0-980.6N (MA-521B), 245-4903 N (MA-770A), 490-9806 N (MA-522B, MA-<br>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<br>power resistance AC | ms-AC: 1-5000ms                                                                                                                                                                                                                   |
| Measurement time current voltage<br>power resistance AC | CYC-AC: 0.5-250.0CYC (50 Hz), 0.5-300.0CYC (60 Hz)                                                                                                                                                                                |
| Measurement time current voltage<br>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<br>power resistance AC | LONG CYC-AC: 0.5-500.0CYC (50 Hz), 0.5-600.0CYC (60 Hz)                                                                                                                                                                           |
| Measurement time current voltage<br>power resistance DC | CYC-DC: 0.5-100.0CYC (50 Hz), 0.5-120.0CYC (60 Hz)                                                                                                                                                                                |
| Measurement time current voltage<br>power resistance DC | ms-DC: 1-2000 ms                                                                                                                                                                                                                  |
| Measurement time current voltage<br>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                                                                                                                                                                                                |
| Ángulo de conducción                                    | 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)                                                                                                                                                                                                 |
| Idiomas                                                 | Japanese, English, Chinese, Korean, German, French, Spanish                                                                                                                                                                       |
| No. of schedules                                        | 127 schedules                                                                                                                                                                                                                     |
| *                                                       | ISO17657 compliant                                                                                                                                                                                                                |
| MASSA E DIMENSIONI                                      |                                                                                                                                                                                                                                   |
| 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)                                                                                                                                                                             |
| Peso                                                    | Approx. 0.9 kg (1.98 lb)                                                                                                                                                                                                          |

Drawings MM-410A - Portable Weld Checker



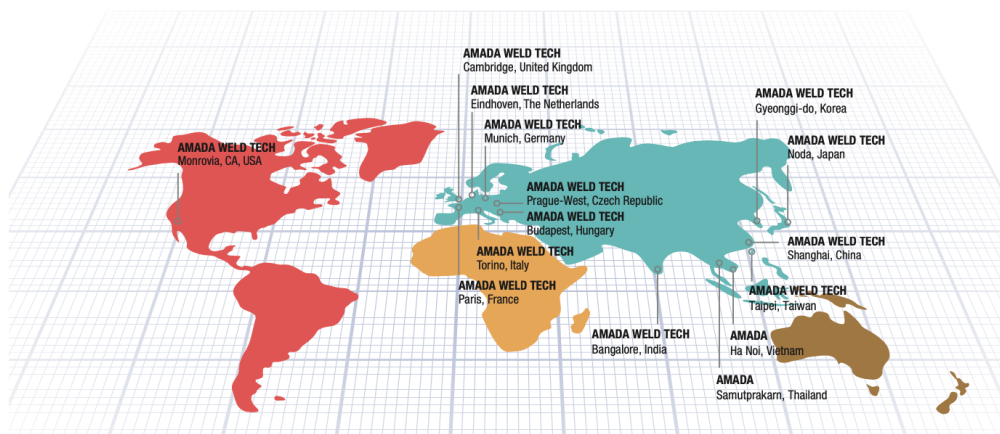
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