Monitor:

- Current
- Voltage
- Time



MM-123B
WELD CHECKER®

The MM-123B is a multi-functional weld checker in a compact design which enables operators to monitor, maintain and manage key welding variables that result in changes in the weld process. A successor to the MM-123A, MM-123B features improved accuracy and added voltage monitoring.

MM-123B measures current, time, and voltage. Captured weld data can be easily managed via the Ethernet communication.

KEY FEATURES

- **Compatible with all types of resistance welding power supplies:** AC current, DC inverter, AC inverter, Capacitor Discharge, and Transistor.
- **Long measuring times (AC-type power supply)** Capable of measuring up to 3000 ms, and this feature is suitable for both spot welding and fusing.
- **Limit function:** Set upper and lower limits for current, voltage, and time.
- **Automation ready:** Easily integrated into production environment
- **Ethernet communication**: Remote programming and process data collection
- **Improved accuracy –** ISO 17657 (with required MB-400P / MB-800P toroidal coil)

ACCESSORIES



Toroidal coil MB-800P (ISO17657 compliant)



Toroidal coil MB-400P (ISO17657 compliant)

Optional accessories

- Voltage detection cable: SK-1205023
- Relay cable (current / voltage): SK-1201740

TECHNICAL SPECIFICATIONS

Model		MM-123B
Measurement Specification		
Current	Range	0.100 ～ 2.000 kA / 1.00 ～ 20.00 kA / 10.0 ～ 200.0 kA
	Items	Peak / RMS* / arithmetic mean RMS
Voltage	Range	0.30 ～ 6.00 V / 1.0 ～ 20.0 V
	Items	Peak / RMS / arithmetic mean RMS
Measurement time	Range	Max. 3 sec (AC) / 2 sec (DC)
		Single phase AC: 0.5 ～ 150 cycle (50 Hz) / 0.5 ～ 180 cycle (60 Hz)
		AC inverter type: 0.5 ～ max. 1500 cycle (depends on welding current frequency)
		DC inverter type: 0 ～ 2000 ms
		Transistor type: 0.50 ～ 25.00 ms (0.02 ms unit)
		Capacitor discharge type: 0.50 ～ 9.99 ms (in short term) / 5.0 ～ 99.9 ms (in long term)
Monitored parameters	Current / Voltage / Time	31 schedules of upper / lower limit
	No current	Available via input connector
Main body Specification		
Display		4 figures digital display (7 segment LED)
Detection method		Toroidal coil, voltage detection cable
Power supply		Single-phase 90 to 250 VAC (50/60 Hz) / 24 V DC ±10%
Power consumption		12 W
External data output		Ethernet (Protocol: TCP / IP)
Ambient temperature / humidity during operation		Temperature 0 – 45°C / humidity less than 90% (non-condensation)
Temperature / humidity during transport		Temperature -10 – 55°C / humidity less than 90% (non-condensation)

*ISO17657 compliant

WEIGHT & DIMENSIONS

Dimensions (W x D x H)	2.75 in x 9.76 in x 7.36 in (70 mm x 248 mm x 187 mm) excluding projections
Weight	4.4 lb (2 kg)

AMADA

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