

General Specifications

Model MA7
Distributor
(Unified Signal Type)

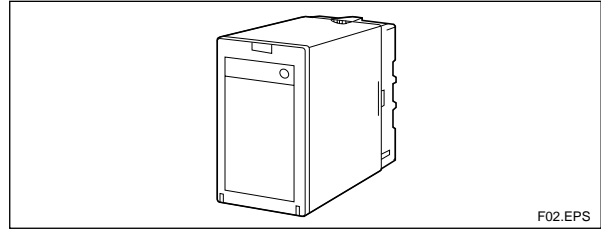


GS 77J04A07-01E

General

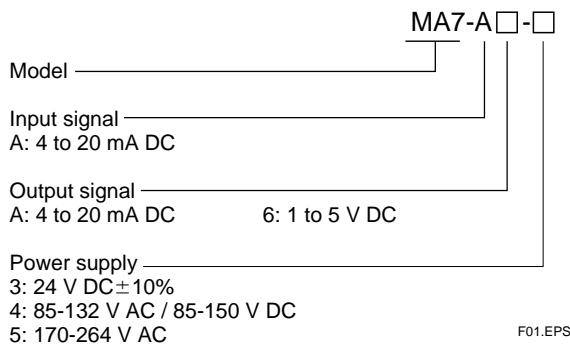
The MA7 is a plug-in type distributor that is used in combination with a two-wire type transmitter to convert the transmitter's 4 to 20 mA DC signals into isolated 4 to 20 mA DC current or 1 to 5 V DC voltage signals.

- Supports BARD-800.
- Provided with Power indicator lamp



F02.EPS

Model and Suffix Codes



Items to be specified when ordering

- Model and Suffix Codes: e.g. MA7-A6-3

Input/Output Specifications

- Input signal: 4 to 20 mA DC signal from two-wire type transmitter
- Input resistance: 250 Ω
- Transmitter power supply: 25.25 ± 0.25 V DC (provided with a current limiter to keep the current between 25 and 35 mA)
- Allowable conductor resistance (RL): Up to [(20 – transmitter's minimum operating voltage) / 0.02 A] Ω
- Maximum allowable input current: 40 mA DC
- Output signal: 1 to 5 V DC voltage or 4 to 20 mA DC current signal
- Allowable load resistance:
 - 4 to 20 mA DC: 750 Ω maximum
 - 1 to 5 V DC: 2 kΩ minimum
- Zero adjustment: -5 to +5%
- Span adjustment: 95 to 105%

Standard Performance

- Accuracy rating: ±0.1% of span
- Response speed: 150 ms, 63% response (10 to 90%)
- Insulation resistance: 100 MΩ minimum at 500 V DC between input, output, power supply and grounding terminals mutually
- Withstanding voltage: 2000 V AC for one minute between input, output, power supply and grounding terminals mutually
- Operating temperature range: 0 to 50°C
- Operating humidity range: 5 to 90% RH (no condensation)
- Supply voltage range: 24 V DC ± 10%, 85-150 V DC, 85-132 V AC, 170-264 V AC (47-63 Hz)
- Effects of power line regulation: Up to ±0.1% of span for the regulation within allowable range of each supply voltage range
- Effects of ambient temperature variations: Up to ±0.15% of span per 10°C
- Power consumption: 2 W at 24 V DC; 1.8 W at 110 V DC; 3.9 VA at 100 V AC; 5.2 VA at 200 V AC

Mounting and Appearance

- Material: ABS resin (casing)
- Mounting method: Wall or DIN rail mounting
 - More than 5 mm interval is required for side-by-side close mounting.
- Connection method: M3.5 screw terminals
- External dimensions: 85 (H) × 51 (W) × 123 (D) mm (including a socket)
- Weight: Approx. 250 g (main unit), approx. 60 g (socket)

Accessories

- Spacer: One (used for DIN rail mounting)

