General Specifications

Model AR-RT
Arrester for RTD/Potentiometer

Scott

GS AR04-01E

■ General

This high quality arrester protects electronic instruments by absorbing induced lightning surge voltage. Arrester should be set between lines through which surges are entered and serves to protect instruments such as transmitters or receivers safely from thunder inducement.

■ Model and Suffix Codes

AR-RT /D

Model

Arrester for RTD/Potentiometer

Option Code
/D : With an adaptor for DIN rail mounting
Blank : Without an adaptor for DIN rail mounting

■ Input and Output

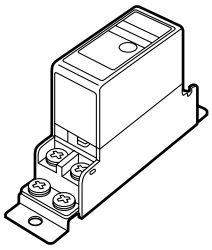
Input Signal: RTD/Potentiometer
Output Signal: RTD/Potentiometer

■ Standard Performance

Permissible current leakage:
Between lines: 2 μA or less (at 8 V DC)
Between ground : 2 μA or less (at 40 V DC)
Instrument side voltage limit:
Between lines: 30 V or less (at 10 kV,1.2/50 μs)
Between ground: 250 V or less (at 10 kV,1.2/50 μs)
Surge discharge withstand capacity:
Between lines: 350 A (at 8/20 μs)
Between ground: 5000 A (at 8/20 μs)
Discharge starting voltage:
Between lines: 20 V or more
Between ground: 74 V or more
Temperature: –10 to +60°C
Humidity: 5 to 90% RH (no condensation)

■Safety Standards

Conforms to EN61010-1 Installation Category Ⅱ



■ Mounting and Appearance

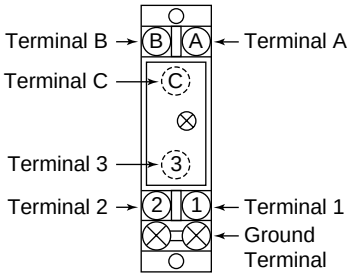
Construction: 2 sections construction of main body and terrminal base: plug-in +screw fastening
Material: Black, flame deterrent ABS resin (Case body)
Black, flame deterrent ABS resin (Terminal base)
Grounding: JIS class 3 grounding [100 Ω or less] (with grounding bar)
Mounting Method: Wall mounting with M4 screw
Connection Method: M4 screw terminal connection(fastening torque 1.2 N·m or less)
External Dimension: 55×23.5×100 mm (H×W×D)
Mounting Dimension: 90 mm

Multi-mounting pitch: 24 mm
Weight: Approx. 110 g

■ Additional Specs.

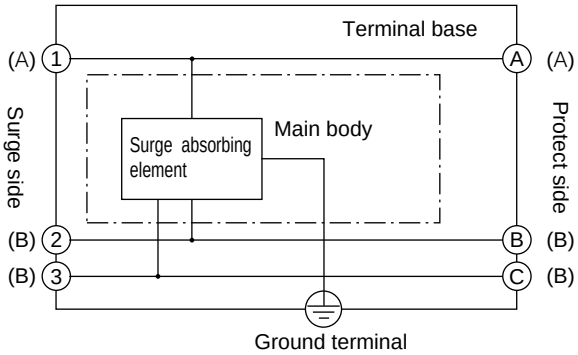
/ D	Adaptor for DIN rail mounting AR8-01: 1	Specs. of AR8-01 External dimensions: 104×23×85 mm For DIN rail 35 mm mounting Material: ABS resin 2 screws for connecting Main body and Adaptor

■ Terminal Arrangement & Terminal Connection

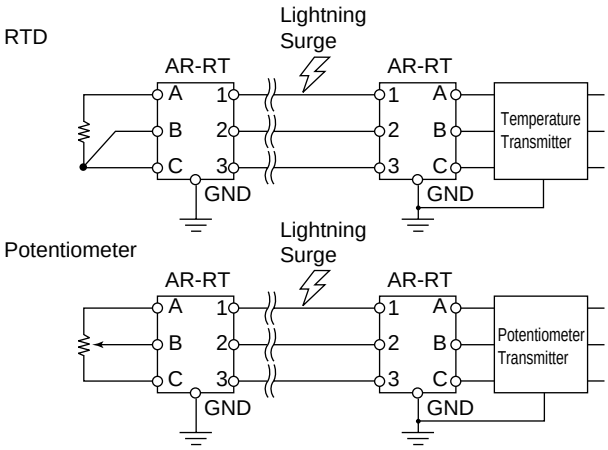


Terminal \ Model		AR-RT
Protect side Terminal	A	A
	B	B
	C	B
Surge side Terminal	1	A
	2	B
	3	B

■ Block Diagram



■ WIRING



■ External Dimension

Unit: mm