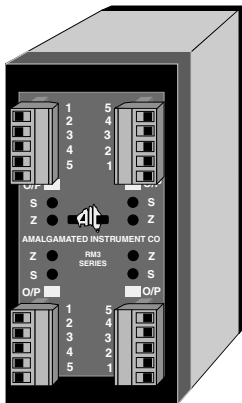
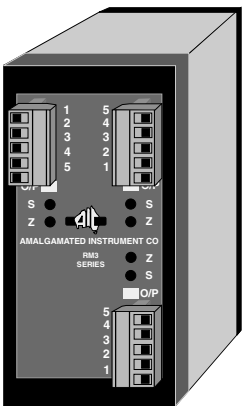


Slidewire Transmitter

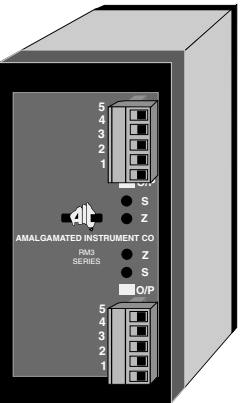
Models RM3-SW-LPN & RM3-SW-LPI



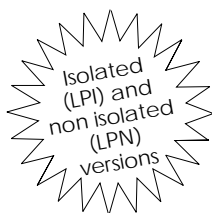
Model
RM3-SW-LPN-4 or
RM3-SW-LPI-4
Four Channel



Model
RM3-SW-LPN-3 or
RM3-SW-LPI-3
Three Channel



Model
RM3-SW-LPN-2 or
RM3-SW-LPI-2
Two Channel



Model
RM3-SW-LPN-1 or
RM3-SW-LPI-1
One Channel



Description

The RM3 2 wire, loop powered, slidewire transmitter accepts a 3 wire slidewire (potentiometer) input. The slidewire inputs are converted to a 4-20mA output signal. Slidewires with resistance ranges of between 0-1kΩ and 0-1MΩ may be used.

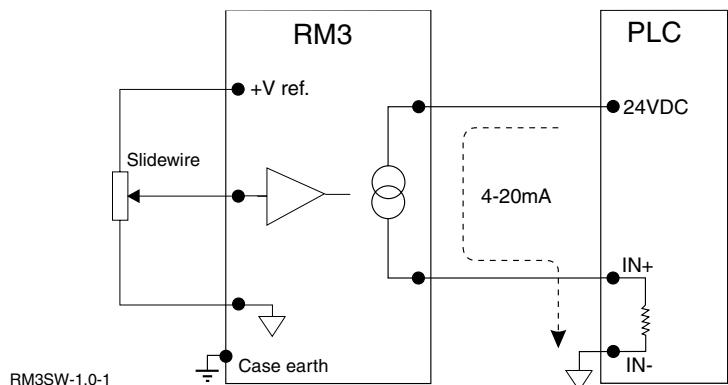
Models are available with either 1, 2, 3 or 4 input/output channels. Each channel has individual zero and span adjustment. Potentiometer controls for each channel are provided at the front of the instrument for zero and span adjustment.

An optional 240VAC or 110VAC supply is available for one or two channel models. This option provides two isolated 24VDC supplies.

Features

- 2 Wire - Loop powered
- 3 wire slidewire inputs
- Isolated or non-isolated versions available.
- 1, 2, 3 or 4 channel models in one compact case
- Output level indicator LED
- Wide zero and span range
- Front panel span and zero fine adjustment
- Rugged enclosure
- DIN rail mount
- Plug in screw terminal connectors
- Same connector wiring configuration for each channel - useful for testing
- Optional 240VAC or 110VAC supply versions
- 2 Year guarantee

Typical Application Block Diagram



Specifications and Ordering Information

Specifications are subject to change without notice

TECHNICAL SPECIFICATIONS

- Input: 3 wire slidewire, acceptable ranges are 0-1kΩ to 0-1MΩ
- Output: 4-20mA, non isolated and isolated versions available.
- Zero & Span: Potentiometer control for adjustment within the link set range.
- Supply: Powered by the 4-20mA loop current or optional 240VAC or 110VAC supply.
- Accuracy: Better than 0.1% of full scale when calibrated
- Linearity: Better than 0.1%
- Thermal Drift: Typically ±70 ppm/°C
- Open Circuit Input Detection: >20mA output
- Response Time: <0.5 sec to 1%
- Protection: Reverse polarity output protection
Over voltage output protection.
- Loop Supply: 13 to 36VDC
- Maximum Load: $R_L = \frac{\text{Supply (V)} - 9}{0.02}$ Ohms
- Load Effects: Effect on accuracy of changing load resistance is no greater than 0.1% FS.
- Ambient temp: 0 to 60°C
- Humidity: 5 to 95% non condensing

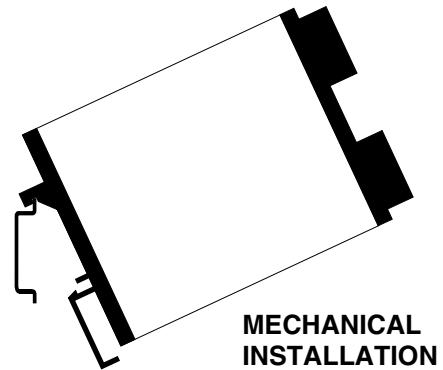
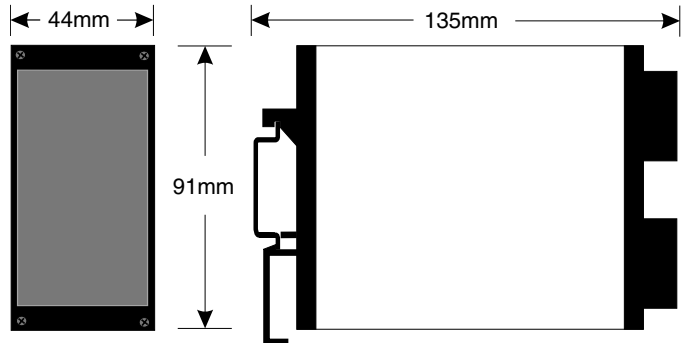
PHYSICAL CHARACTERISTICS

- Case size: 44mm x 91mm x 120mm
- Mounting: 35mm DIN Rail mount (EN50022)
- Connections: Plug in screw terminals (max 1.5mm² wire)
- Weight: 1 Channel 230 gms, 2 Channel 250 gms
3 Channel 300 gms, 4 Channel 320 gms

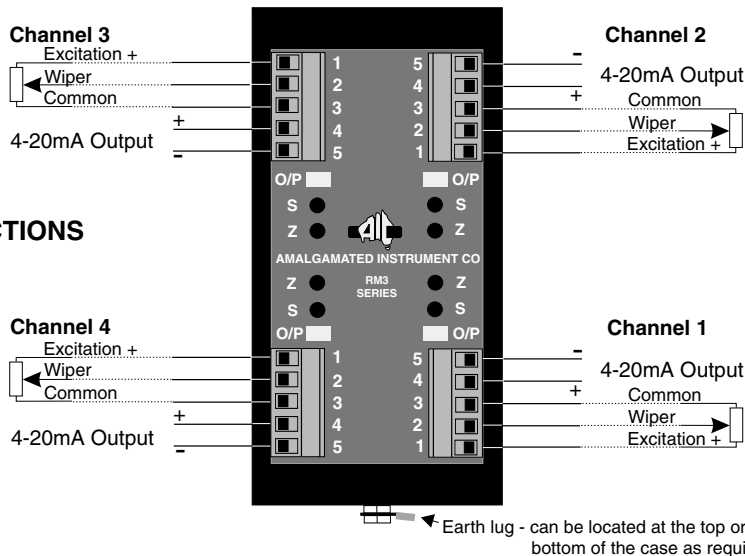
OPTIONS

- Power supply: 240VAC or 110VAC supply - provides two isolated 24V supplies @ 40mA each (one and two channel models only)

DIMENSIONS



ELECTRICAL CONNECTIONS



ORDER CODE

RM3-SW-LPN-1	Slidewire one channel model (non isolated)	RM3-SW-LPI-1	Slidewire one channel model (isolated)
RM3-SW-LPN-2	Slidewire two channel model (non isolated)	RM3-SW-LPI-2	Slidewire two channel model (isolated)
RM3-SW-LPN-3	Slidewire three channel model (non isolated)	RM3-SW-LPI-3	Slidewire three channel model (isolated)
RM3-SW-LPN-4	Slidewire four channel model (non isolated)	RM3-SW-LPI-4	Slidewire four channel model (isolated)
RM3-OPT-240-01	Optional 240VAC supply		
RM3-OPT-110-01	Optional 110VAC supply		

RM3SW-1.0-1