

# MULTI-CHANNEL RESISTANCE TRANSMITTER

*The multi-channel resistance transmitter has been designed to provide a convenient interface between resistance transmitters typically used in automotive or mobile applications.*

*Designed to be used with single terminal resistance transducers, typically Siemens VDO Automotive type temperature and pressure sensors, which utilize a chassis-based ground return.*

*Nine resistance and one frequency inputs are provided, each producing a 4 to 20 mA output in proportion to the input resistance or frequency. The outputs share a common ground connection with the sensors. Signal isolation is not provided.*

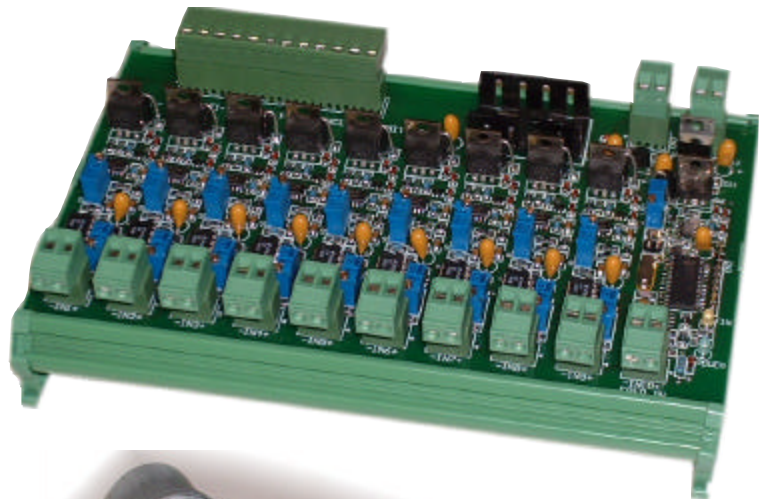
*An auxiliary 9V 100 mA power output is provided for an 'off-board' RS232 RF Communications Module.*

## APPLICATIONS:

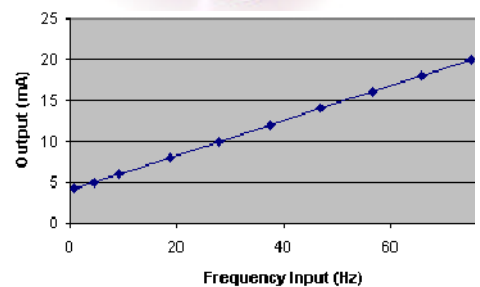
- Vehicle monitoring systems.
- Multiple resistance to current conversion.
- Frequency or speed conversion to 4-20 mA.
- Mobile applications using PLCs or remote control, logging or monitoring systems.

## SPECIFICATIONS:

- Nine resistance inputs - anything between 0 to 10 kΩ, specified on order.
- One frequency input - from 0.01 to 1,000 Hz.
- Input power supply 18 to 30 VDC at 400 mA maximum.
- Auxiliary DC output 9 V DC at 100 mA.
- 4-20 mA outputs independent of load - up to 500 Ω.
- Open sensor output current of 23 mA.
- Sensor excitation current 1 to 10 mA.
- Dimensions 185 x 110 x 60 mm (W x H x D).

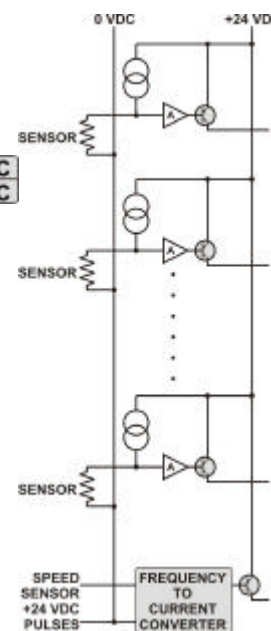


Frequency Input :	
Freq In (Hz)	Iout (mA)
0.90	4.22
4.53	5.00
9.22	6.00
18.62	8.00
27.97	9.99
37.33	11.98
46.95	14.03
56.50	16.07
65.80	18.05
75.00	20.06



### Part Numbering:

PL-MCRT/9R-1F/C Multi-Channel Res Transmitter 24 VDC  
 PL-MCRT/9R-1F/D Multi-Channel Res Transmitter 12 VDC



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