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MTL1249 signal converter

voltage / current

The **MTL1249** is a single channel signal conditioner which can accept voltage or current inputs and provide a voltage or current output. The signal levels are selected by the user using switches on the module.

Power for this module is supplied via the power bus embedded in the DIN rail in conjunction with the power bus accessories.



Function
Voltage input (+)
Voltage / Current Input -
Current input +

Terminals	Function
5	Current Output +
6	Current output -
7	Voltage output +
8	Voltage output -
D	Power supply -ve
E	Power supply +ve

SPECIFICATION See also common specification	
Number of channels	One, with fully floating input and outputs
Location of equipment	Safe area
Input signal ranges	0-100mV, 0-1V, 0-5V, 0-10V, 1-5V, 0-20mA, 4-20mA
Output signal ranges	0-5V, 1-5V, 0-10V, 2-10V, 0-20mA, 4-20mA, sink or source
Over-range	>103%
Field input resistance	Current mode 25 Ω Voltage mode >100k Ω
System output load	Current mode @ 20mA: 0 to 550 Ω Voltage mode 10k Ω (output impedance <150 Ω)
Response time	20mS
Transfer Accuracy at 20 °C	0.2% (0.4% 100mV input)
Temperature drift	<0.01% of span/°C
Power supply voltage,	18V to 32V DC
Maximum current consumption (with 20mA signal)	38mA @ 24V dc
Maximum power dissipation within unit	<1W @ 24V dc
Isolation	250V ac or dc functional isolation between power, field and system circuits. (Tested to 1100Vac)



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