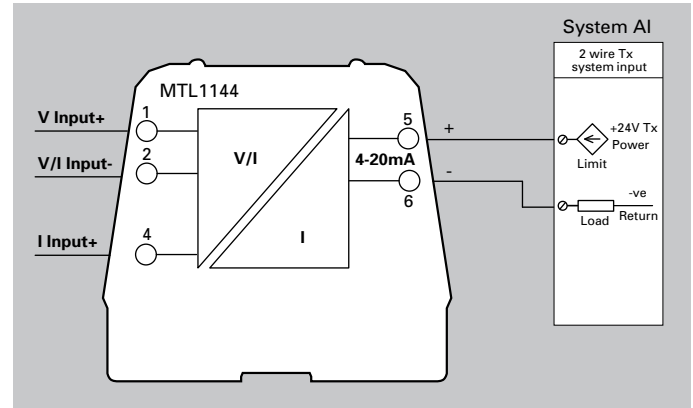


# MTL1144

## voltage/current input isolator

1 channel for 1V/5V/10V and  
20mA inputs

The **MTL1144** is a single channel signal converter which can accept 0-1V, 0-5V, 1-5V, 0-10V, 0-20mA and 4-20mA inputs and converts the signal to 4-20mA for connection to a powered system input. Ranges are selected by the user using switches on the module.



Terminals	Function
1	V Input +
2	V/I input -
4	I input +
5	Current sink+
6	Current sink-

SPECIFICATION	
See also common specification	
Number of channels	One, with fully floating input and output
Location of equipment	Safe area
Input signal ranges	0-100mV, 0-1V, 0-5V, 1-5V, 0-10V, 0-20mA, 4-20mA
Range selection	Via switches, refer to instructions
Output signal ranges	4-20mA, current sink, maximum load 50 (Vs - 17) Ω
Over-range	>103%
Field input resistance	>100KΩ voltage input, 20Ω current input
Response time	20mS
Transfer Accuracy at 20 °C	0.2% (0.4% 100mV range)
Temperature drift	<0.01 % /°C
Power supply voltage	18V to 32V DC
Maximum power dissipation within unit	<0.6W @ 32V dc with 250Ω load
Isolation	250V ac or dc functional isolation between power, field and system circuits. (Tested to 1100Vac)