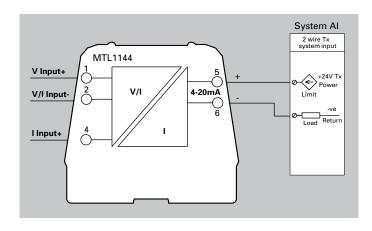
MTL1144 voltage/current input isolator

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 | l 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 | >100K Ω voltage input, 20 Ω 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) |



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