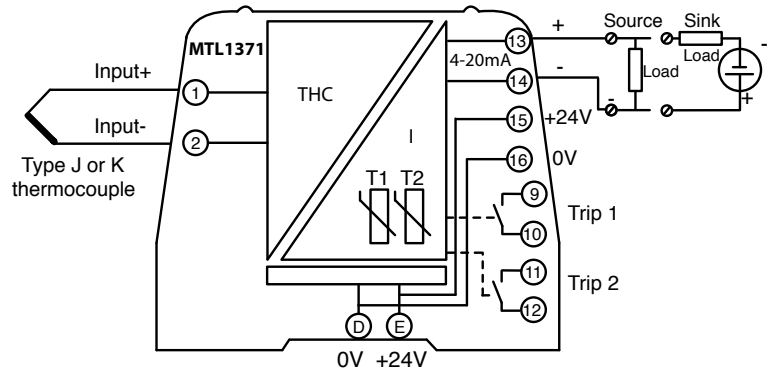


MTL1371

Thermocouple input converter and trip amplifier

1 channel for Type J/K THC sensors, 2 alarm outputs

The **MTL1371** is a single channel signal converter which can accept type J or K thermocouple inputs and converts the signal to 4-20mA. Ranges are selected by the user using switches on the module. 2 trip amplifiers are also provided with level settings. The module may be powered directly or via the PBUS17.5 power feed in the DIN rail.



Terminals	Function
1	Input +
2	Input -
9	Trip 1 contact (NO)
10	Trip 1 contact
11	Trip 2 contact (NO)
12	Trip 2 contact
13	Output +
14	Output -
15, E	Power supply +ve
16, D	Power supply -ve

SPECIFICATION see also common specification	
Number of channels	One with fully floating input and output
Location of equipment	Safe area
Input signal	Type J or K thermocouple
Range selection	Via switches, refer to instructions
Output signal	4-20mA, current source or current sink
Field input resistance	>100KΩ
Cold Junction Compensation accuracy	±1°C
Response time	500ms
Transfer Accuracy at 20 °C	0.2%
Temperature drift	<0.01% /°C
Relay characteristics	Contact rating: 250V ac, 2A cosØ >0.7, 340V dc, 2A resistive load
Current consumption	80mA max, 55mA typical @24V
Power dissipation	0.85W (with 20mA signal)
Isolation	250V ac or dc between power, field and system circuits. (tested to 1100Vac)