

## AGS1119-TC Two out of Three Trip Amplifier

- Suitable for SIL 1 & 2 safety loop applications
- Suitable for any Thermocouple Type inputs
- Supply Voltages 10 to 35Vdc  
115 / 230Vac +/- 20%
- Amelec Standard 10 year guarantee

### Performance

Trip settability :-  $\pm 0.2\%$   
 Trip repeatability:-  $\pm 0.1\%$   
 Response time:- <400mS

### Environmental Conditions

Storage temperature: -40 to 70°C  
 Operating ambient: -15 to 55°C  
 Relative humidity: 5-95 % RH

### Isolation

1000VDC  
 Input(S)/Contacts/Supply/Earth

### Dimension

152W x 137D x 81H

### Input

Any signal developed from a thermocouple  $\geq 4\text{mV}$   
 Typical input: 0 - 600°C type K thermocouple  
 Input O/C drive up or downscale response

### Outputs

Common Trip output is a 2 x changeover (Relay 1)  
 Alarm output is a 1 x changeover (Relay 2)  
 Contacts, rated at 24Vac, 2A, 100VA (resistive)

### Trip Function

Set points set by fifteen turn blindest potentiometer, each channel independently adjustable over the full input range.

Three green LED's, one for each input, identified as ALARM 1,2 & 3. LED's to extinguish on alarm to show which input has caused the alarm and Relay to de-energise.

One red LED identified as TRIP to extinguish on any two or more inputs going into alarm and latch into trip Relay 1 to de-energise on TRIP (Fail safe) giving two changeover contacts

Trip can be reset by volt free contact closure on TB17 & 19.

### Wiring

