

AGS1119 Two out of Three RTD Temperature Trip Amplifier

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument: ✓
- Supply Voltage options: 24Vdc $\pm 10\%$ or 48Vdc $\pm 10\%$
- Amelec Standard 10 year warranty

Inputs (x 3)

Any 2/3 wire PT100 or PT1000 RTD input type & temperature Ranges may be specified, with a minimum 50°C calibration span.

Relay Output

Common Trip output is a set of D.P.C.O contacts, rated at 110Vac, 1A, 100VA (resistive)

Environmental Conditions

Storage temperature: -40 to +70°C
Operating ambient: -15 to +55°C
Relative humidity: 5-95 % RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1: 2013 (Controlled EM)

Performance

Trip settability :- $\pm 1\%$
Trip repeatability:- $\pm 0.1\%$
Response time:- $\leq 400\text{ms}$
Input O/C response: Upscale drive

Isolation

1000VDC
Input/Input/Input/Contacts/Supply

Dimensions

152w x 137d x 81h mm

Trip Function

Alarms each on high, fail safe, set by fifteen-turn blindset potentiometers, each channel independently adjustable over the full input range.

Three Green LED's, one for each RTD input channel, identified as TRIP 1, 2 & 3, LED's to Extinguish on Alarm to show which input temperature channel has caused the alarm.

One Red LED identified as COMMON illuminates when any Two or more input channels go into alarm state.

One Common Relay then De-energises on 2oo3 Alarm (Fail Safe) giving two output changeover contacts.

Wiring

