

AST112 Thermocouple Trip Amplifier with two set points

- 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	±10%
48Vdc	±10%
- AMELEC Standard 10 year warranty



Technical Specifications

Input

Any mV signal range up to 400mV, or mV signal developed from any thermocouple type; J, K, N, R, S, T, with a minimum 4mV span.

Automatic cold junction compensation fitted as standard.

Relay Outputs

Each Trip output is a set of changeover contacts (S.P.C.O) rated at 250VAC, 2A, 100VA resistive.

Fail Safe Relays De-energise on Trip & on Loss of Power as std.

Red LED indication of each relay status

(ON Energised/healthy, Extinguished in Trip/De-energised state)

Isolation

1000V RMS Input/Contacts/Contacts/Supply

Performance

Trip settability: ±1%

Trip repeatability: ±0.1%

Response time: <400mS (0-100% input step change)

Deadband: Fixed nom 1% Span as std (other Hysteresis ranges available)

Input Open Circuit response: Upscale drive as std

(O/C Downscale drive available on request)

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)

Dimensions

22.5w x 75h x 110d (mm)

Mounting

Din Rail (TS35)

Customer Termination

Fixed screw terminals

