

## AST132 Process I/V Trip Amplifier with two set points

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) Safety Instrumented System (SIS) Loop applications
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options:
 

24Vdc	±2.5V
48Vdc	±5V
- AMELEC Standard 10 year warranty



### Technical Specifications

#### Input

Any DC voltage or current process signals, which can be routed into a pi network to develop a 400mV span.

Current ranges up to 100mA max input (passive port)  
 Voltage ranges up to 150Vdc max (impedance  $\geq 1M\Omega$ )  
 Typical Input: 4-20mA (impedance 20 $\Omega$ ) or 0-10Vdc (impedance 1M $\Omega$ )

#### 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 standard.  
 Any combination Hi-Lo, Hi-Hi, Lo-Hi or Lo-Lo Trip action may be specified.  
 Red LED indication of each relay status; LED ON Energised/healthy, Extinguished in Trip/De-energised state as standard.

#### Isolation

1000V RMS Input/Contacts/Contacts/Supply

#### Performance

Trip settability:  $\pm 1\%$   
 Trip repeatability:  $\pm 0.1\%$   
 Response time: <100mS (0-100% input step change)  
 Deadband: Fixed 1% Span as std (other Hysteresis ranges available)  
 Input Open Circuit response: Downscale drive as standard (O/C Upscale drive available on request – 'X' option)  
 Consumption: <3VA

#### 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

