

## AHT615-P-RIS mV Trip Amplifier

- Suitable for any Millivolt input
- Supply voltage 21-30Vdc
- Suitable for SIL 1, SIL 2 & 3 rated (IEC61508) safety system loop applications
- AMELEC Standard 10 year warranty
- RIS ET8204 Series Replacement Card

### TECHNICAL SPECIFICATION

#### FUNCTION

High Trip: Relay De-energise on rising mV  
OR  
Low Trip: Relay De-energise on falling mV.

#### INPUT

Any signal within a span of 4 to 400 mV.

#### OUTPUT

The Trip output is a pair of changeover contacts DPCO, rated at 250VAC, 3A, 100VA (resistive).

#### CONTROLS

Zero / Span: 15 turn potentiometers, used to set internal reference 0 – 2Vdc for 0 to 100% input.

Set point: 15 turn potentiometer to set Trip point within set input range.

#### TEST POINT

Trip set point can be monitored using the supplied test plug on any standard DVM. 0 – 2Vdc for 0 – 100%.

#### INDICATOR

Amber Led: power ON indicator  
Red Led: Trip status indicator  
LED Off / Relay Energised = Healthy Condition  
LED ON / Relay De-energised = Trip Condition

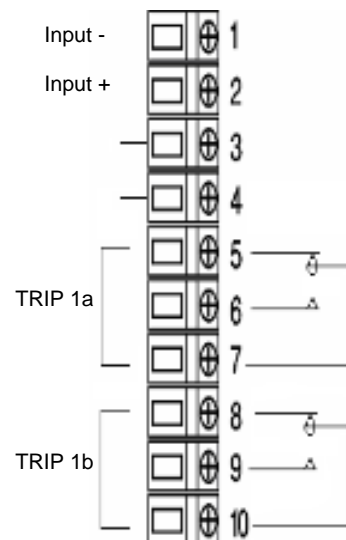
#### PERFORMANCE

Trip repeatability: <  $\pm 0.1\%$   
Response time: Typically < 100ms  
Trip settability: <  $\pm 0.1\%$   
Hysteresis: 1% span as std

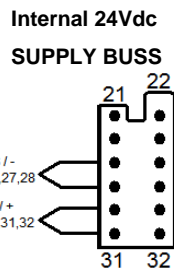
#### PROTECTION

Isolation 1000V RMS\*. Input/Contacts/Supply/Earth  
Internal Fuse.  
Fail safe on loss of power (Relay de-energised)  
Input over range typically at 300%.  
Input O/C fail: Up or Downscale, request as required

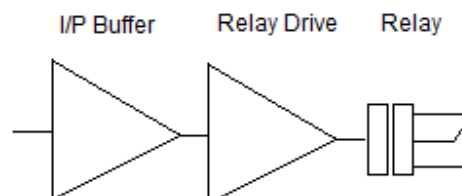
#### TERMINATION



#### FRONT VIEW



#### FUNCTION BLOCK DIAGRAM



#### ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C  
Operating Ambient: -15 to +55 °C  
Relative Humidity: 5 to 95% RH

#### MOUNTING / DIMENSION

Card 3U high 4E wide  
Mounting 19" rack / 84E wide (See rack GA for details)  
Card weight < 200g

#### ADD ON / OPTIONS

J : Input injection jack socket  
P: Test point (Trip set point monitoring)  
Non standard Power supply ranges available