

AHT615-P-RIS mV Trip Amplifier

- Suitable for any Millivolt input
- Supply voltage 21 to 30Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)
- 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 with span of 4 to 300 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 <math>< 400\text{ms}</math>
Trip settability: $\pm 0.1\%$
Hysteresis: 1%

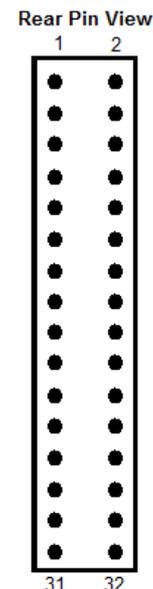
PROTECTION

Isolation 1000V RMS*. Input/Contacts/Supply/Earth
Internal Fuse.
Fail safe on loss of power (Relay de-energised)
Input over range typically at 300%.

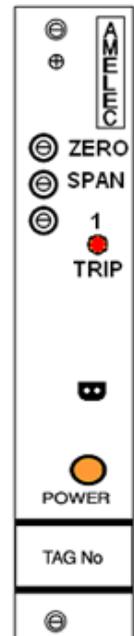
TERMINATION

+I/P = 3 & 4
-I/P = 1 & 2
N/C = 5 & 6
-I/P = 7 & 8

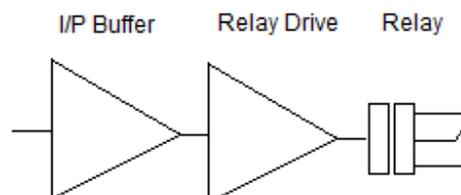
NCa = 9 & 10
NOa = 11 & 12
Com = 13 & 14
NCb = 15 & 16
NOb = 17 & 18
Com = 19 & 20
PS / -
= 25, 26, 27, 28
PS / +
= 29, 30, 31, 32



FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL 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 <math>< 200\text{g}</math>

ADD ON / OPTIONS

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