

AH-GEM 720 RTD Temperature Transmitter

- Suitable for Upgrade/Replacement of original GEM80 8420 series Temperature input signal conditioning cards
- Supply voltage 21 to 30Vdc (new 24Vdc supply required to the original 8405 series Subrack)
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

FUNCTION

Temperature input signal Converter / Isolator

INPUT

Can be configured to accept 2 or 3-wire PT100 Resistance thermometer inputs (PT1000 RTD input also available on request).

Typical input: 0 − 100 Deg °C / 3-wire

OUTPUT

DC current or voltage specified in the range of:

Current up to 100mA max in Sink configuration (externally powered)

Current up 22mA max Source configuration (Internally

Typical output ranges: 0-5V, 1-5V, 0-10V, 4-20mA (Source)

CONTROLS

Zero / Span: 15 turn potentiometers to calibrate Output.

INDICATOR

Amber Led: power ON indicator

PERFORMANCE

Response time: Typically < 400mS

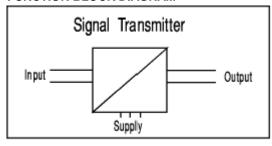
Linearity: ±0.1%

PROTECTION

Isolation 1000V RMS*. Input/Output/Supply Internal Fuse.
Fail safe on loss of power Input over range typically at 300%.
Output saturation 125%.



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: Existing 16way GEM80 8405 series subrack Card weight < 200g

ADD ON / OPTIONS

P: Test Point (output monitoring)
Non standard Power supply ranges available

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