

AH-GEM 750 AC Input Signal Transmitter

- Suitable for Upgrade/Replacement of original GEM80 8450 series I/O 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

AC input Signal Converter / Isolator

INPUT

AC Current or Voltage input ranges :

Typical inputs: 0--2mA ac, 0-1Vac

OUTPUT

DC current or voltage specified in the range of:
 Current up to 100mA max in Sink configuration (externally powered)
 Current up to 22mA max Source configuration (Internally powered)
 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

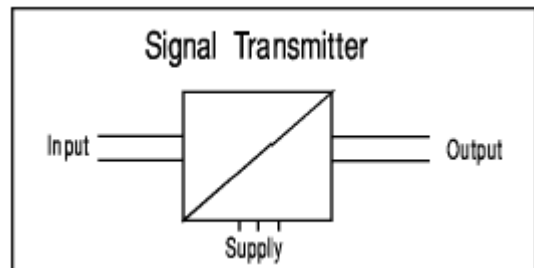
Response time: Typically < 400mS
 Linearity : $\pm 0.1\%$

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