

AH-GEM 730 Process Signal Transmitter

- Suitable for Upgrade/Replacement of original GEM80 8430 & 8431 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

Process Input / Output Signal Converter / Isolator

INPUT

DC Current / Voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 100V max

Typical inputs: 0-5V, 1-5V, 0-10V, 0-10mA, 4-20mA

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 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

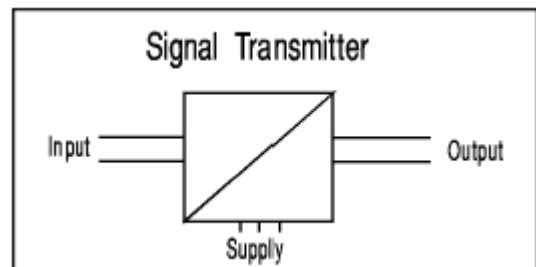
Response time: Typically < 400ms
Linearity : $\pm 0.1\%$

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



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

ADD ON / OPTIONS

M: Input loop Excitation (@ 10V / 24Vdc, as per 8460 series)
J: Input injection Jack
P: Test Point (output monitoring)
Non standard Power supply ranges available