

AHM 730 Process I/V Signal Transmitter / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (IEC61508) safety system loop applications
- Supply voltage 21 to 30Vdc
- RFI Protection to IEC61000-4-3:2006/A2:2010 available
- AMELEC Standard 10 year warranty

TECHNICAL SPECIFICATION

FUNCTION

Process V / I input signal Converter / Isolator

INPUT

DC current / voltage can be specified in the range of:
 Current up to 100mA max (Passive port)
 Voltage up to 150Vdc max (impedance 1M ohms)
 Typical input: 4 - 20mA (passive, impedance 20ohms)

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 in Source configuration (Internally powered)
 Voltage ranges up to 20Vdc max @ up to 20mA.
 Typical output range: 4-20mA (Source, 1200 ohms max load)

CONTROLS

Zero/Span: 15-turn blindset potentiometers to calibrate Output

INDICATOR

Amber LED: Power ON indicator

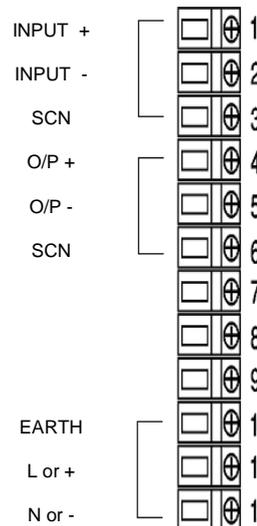
PERFORMANCE

Response time: Typically <100ms
 Accuracy/Linearity : $\pm 0.1\%$

PROTECTION

Isolation: 1000V RMS*. Input/Output/Supply
 *500VDC if RFI option ('K' option) is specified.
 Internal Fuse.
 Fail safe on loss of power
 Input over range typically at 300%.
 Output Saturation typically at 125%

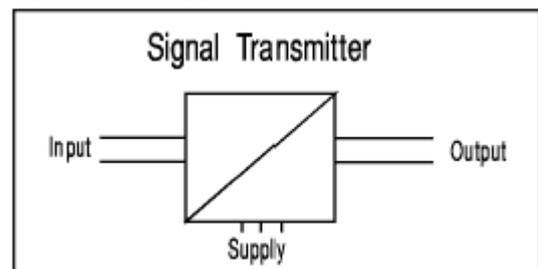
TERMINATION



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 as standard
 Mounting 19" rack / 84E wide (See rack GA for details)
 Card weight < 200g

ADD ON / OPTIONS

DI: Common LCD display for local monitoring
 J : Input injection jack socket
 P: Test Point (Output monitoring)
 K: RFI protection to IEC61000-4-3:2006/A2:2010
 Non standard Power supply ranges available