

AHM 731KS Process Signal Transmitter / Splitter / Isolator

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

TECHNICAL SPECIFICATION

FUNCTION

Process V / I input signal Converter / Splitter / 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 input: 4 - 20mA (Passive port, impedance 20Ω)

OUTPUTS

Each 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)
Voltage any from 0.4 to 20V max @ up to 20mA.
Typical output: 2 x 4-20mA (Source ports, max loads 550Ω)

CONTROLS

Zero / Span: 15 turn potentiometers to calibrate Each Output.
Nom ±20% span adjustment available

INDICATOR

Yellow Led: power ON indicator

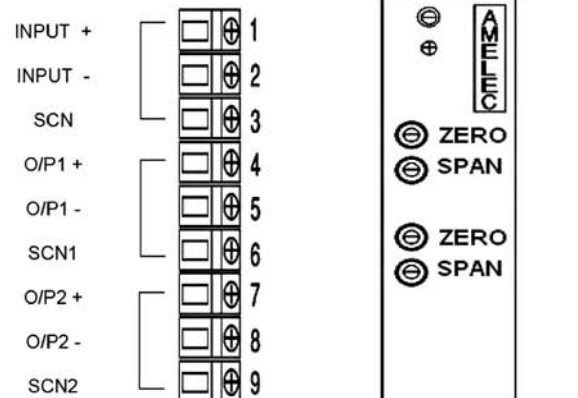
PERFORMANCE

Response time: Typically <100mS
Accuracy/Linearity: ±0.1%
Supply regulation: 21-30Vdc, nom 24 Vdc
Supply Consumption: <2VA
Input O/C response: Downscale drive as std

PROTECTION

Isolation: 500Vdc Input/Output/Output/Supply/Earth
Internal Fuse.
Fail safe on loss of power.
Input over range: typically 300%.
Output Saturation: typically 125%.
RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,
80MHz-1GHz/5.6GHz ≤30V/m, 889MHz-1.75GHz ≤40V/m.

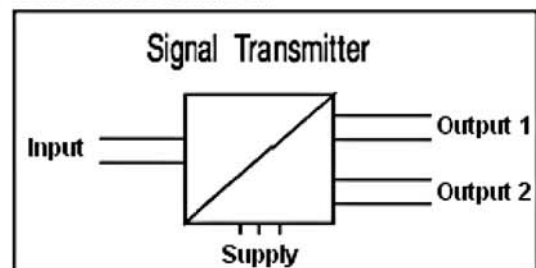
TERMINATION



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

Instrument: Single Card with 3U high 4E wide front plate
Mounting: 19" rack / 84E wide (See rack GA for details)
Card weight < 200g

ADD ON / OPTIONS

DI: Common LCD display for local monitoring
P: Test point(s) for Output monitoring
X: READ buss line to show input on Common DI module
X: Input O/C response UPSCALE drive
Non standard & AC Power supply ranges also available