AMELEC SIGNAL CONDITIONING

AGS1095X Process to Pulse/Frequency Converter

- Suitable for most Process & unusual Signals
- Supply voltage options: 24Vdc / 48Vdc/ 115Vac / 230Vac
- RFI protection to IEC61000-4-3:2006/A2:2010 available
- Amelec standard 10 year warranty
- Suitable for SIL 1 & 2 rated (IEC 61508-2) applications as 1oo1 architecture (HFT:0)

APPLICATION

- Convert process I/V signals to pulses, with amplitude and mark to space ratio to suit application.

TECHNICAL SPECIFICATION

FUNCTION

Convert standard process mA / Voltage (DC) signal to pulses, frequency range from 0.001 to 1000Hz, up to 24V pk to pk.

INPUT

DC current/voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 150V max
Typical input: 4-20mA (Passive, Impedance 20ohms)

OUTPUT

Amplitude up to 24V pk to pk can be specified as std
Current drive up to 50mA max as standard

CONTROLS

Zero / Span: 15 turn potentiometer.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

Linearity: < ±0.1%
Response time: Typically < 400mS
Accuracy: < ±0.1%

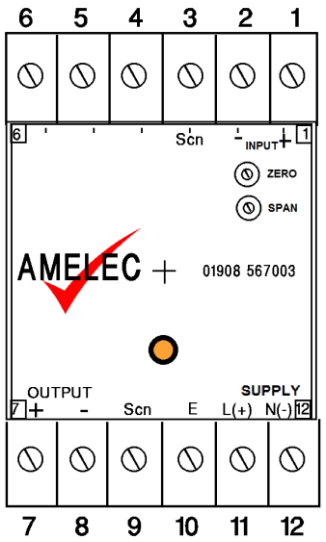
PROTECTION

Input O/C response: Downscale drive.
Isolation: 1000V RMS* Input / Output / Supply / Earth
*(500Vdc if 'K' option RFI protection is specified)
Internal Fuse.
Input over range up to typically 300%.

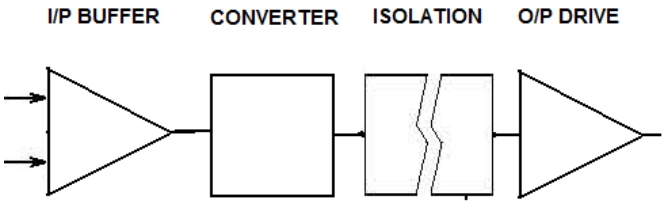
TERMINATION

INPUT +	1
IINPUT -	2
Scn	3
	4
	5
	6
OUTPUT +	7
OUTPUT -	8
Scn	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70℃
Operating Ambient: -15 to +55℃
Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d mm
Mounting: Din Rail (TS35) or Surface by corner fixing holes (K option=182d mm enclosure + optional seismic mounting plate available)
Weight < 300g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
K: RF immunity (20MHz-3GHz ≤10V/m, 80MHz-1GHz ≤30V/m)
HI: High Current spec; input &/or output
HV: High Voltage spec; input &/or output
Other Non std spec; input &/or output &/or power supply available on request

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