

ADC320 Lineariser

- Supply voltage: 24Vdc / 115Vac / 230Vac
- RFI protection to IEC801-3 available
- Amelec standard 10 year warranty
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

ADC320 will linearise 3/2 and 2/5 signals as obtained from flow transmitters by continuous curve generation.

TECHNICAL SPECIFICATION

INPUT 1

DC current / voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 150V dc max
Typical input: 4 - 20mA (Passive, impedance 20Ω)
Note: Inputs will have a Common internal 0V.

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)
Voltage any from 0.4 to 20V max @ up to 20mA.
Typical output range: 4 - 20mA (Source)

CONTROLS

Zero / Span (+/- 20%): 15 turn potentiometers for output calibration.

INDICATOR

Power ON: LED, Amber.

PERFORMANCE

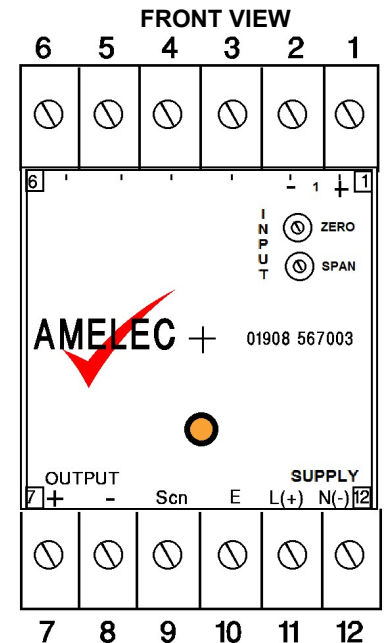
Linearity: 5 to 10% of signal $\pm 3\%$, 10 to 100% $\pm 0.3\%$
Response time: Typically < 200ms
Accuracy: < $\pm 0.1\%$

PROTECTION

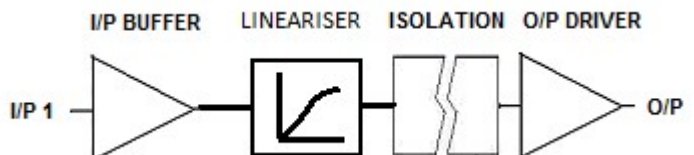
Input O/C response: Downscale drive
Isolation 1000V RMS. Input/Output/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.

TERMINATION

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



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

Enclosure: 50w x 75h x 110d mm
Mounting: Din rail (TS35) or Surface by corner fixing holes
Weight < 200g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point
Non standard Power supply ranges available