ADM239XC Deviation Control Unit with Adjustable Set Point

- Suitable for SIL 1, 2 & 3 safety loop applications
- Supply voltages: 115Vac ±20%
  240Vac ±20%
  24Vdc ±2.5V
  48Vdc ±5V
- RFI Protection to IEC61000-4-3 available
- AMELEC Standard 10 year warranty

Technical Specifications

Input
Input 1; Calibrated Dial on unit front fascia to set desired constant temperature ref.

Input 2; 4-20mA representing actual temperature (impedance 20ohms)

Output
4-12-20mA to Valve positioner (max load 1200ohms)
With Low Limit adjustable over 0-8mA by blindset potentiometer.

Functions
As the Temperature Input Signal deviates from the Set Point by +(xx)%, the Output will increase by +(xx)% from 12-20mA to operate valve.

As the Temperature Input Signal deviates from the Set Point by -(yy)%, the Output will decrease by -(yy)% from 12-4mA to operate valve.

When the Temperature Input signal equals the Set Point the Output = 12mA.

Isolation
1000V RMS Input(s)/Output/Supply/Earth
Linearity <±0.1%
Input Open Circuit Response: Downscale Drive

Environmental Conditions
Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

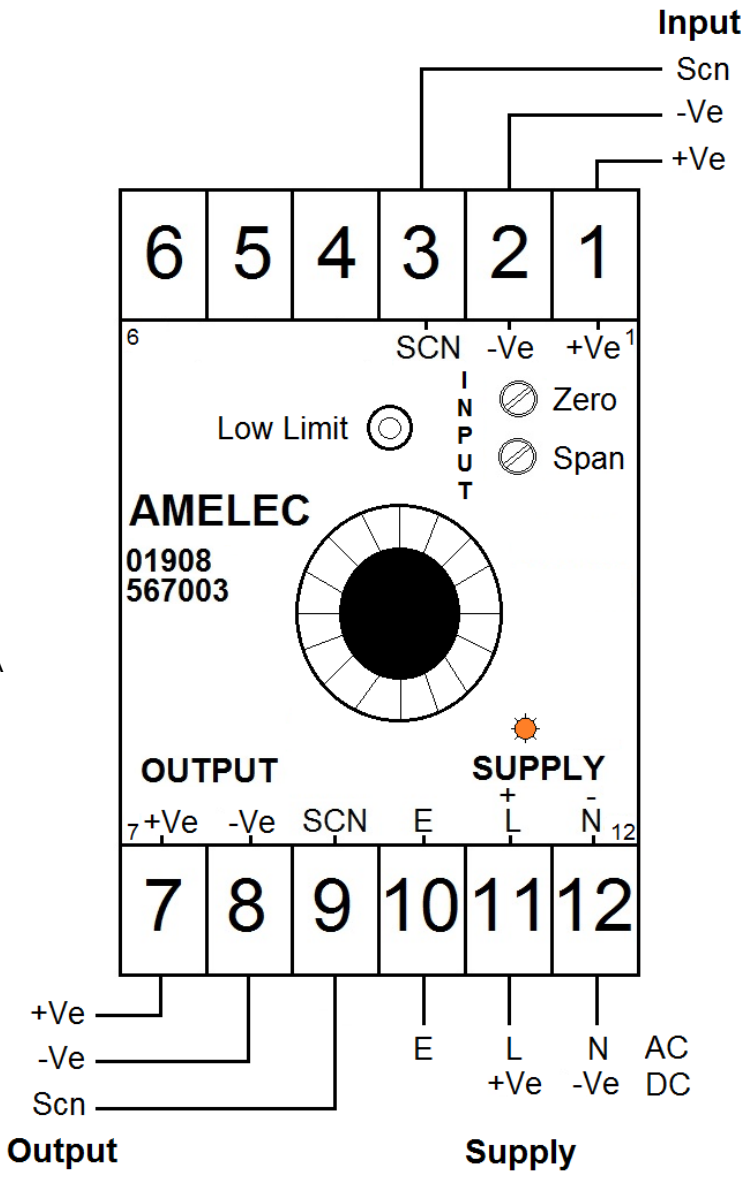
Input Load / Output Drive

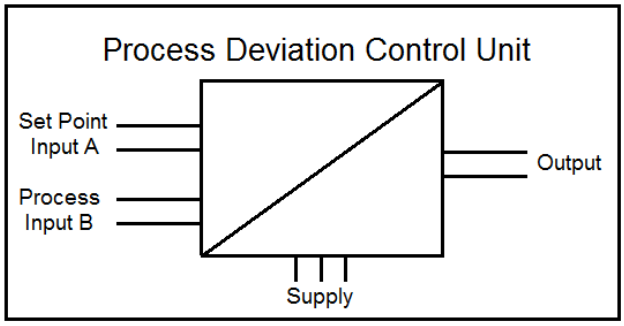
Typical Process Inputs
Current 4-20mA 20Ω
Current 1-5Vdc 1MΩ

Typical Output
Current 4-20mA max load 1200Ω
Voltage 1-5Vdc min load 250Ω

Dimensions
50w x 75h x 110d (mm)

WIRING





Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735
AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ

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