ADM239XC-RA Process Deviation Control Unit

- 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 Inverter Drive Speed / Pressure

Input 2; 4-20mA representing Air Pressure (-20 to +20 inches wg, impedance 20ohms)

Output
4-20mA with Low Limit adjustable over 0-8mA by blindset potentiometer (max load 1200ohms)

Functions
As the Process Input Signal deviates from the Set Point by +(xx)%, the Output will increase by +(xx)% to speed the inverter drive up.

As the Process Input Signal deviates from the Set Point by -(yy)%, the Output will decrease by -(yy)% to slow the inverter drive down.

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

Isolation
1000V RMSInput(s)/Output/Supply
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

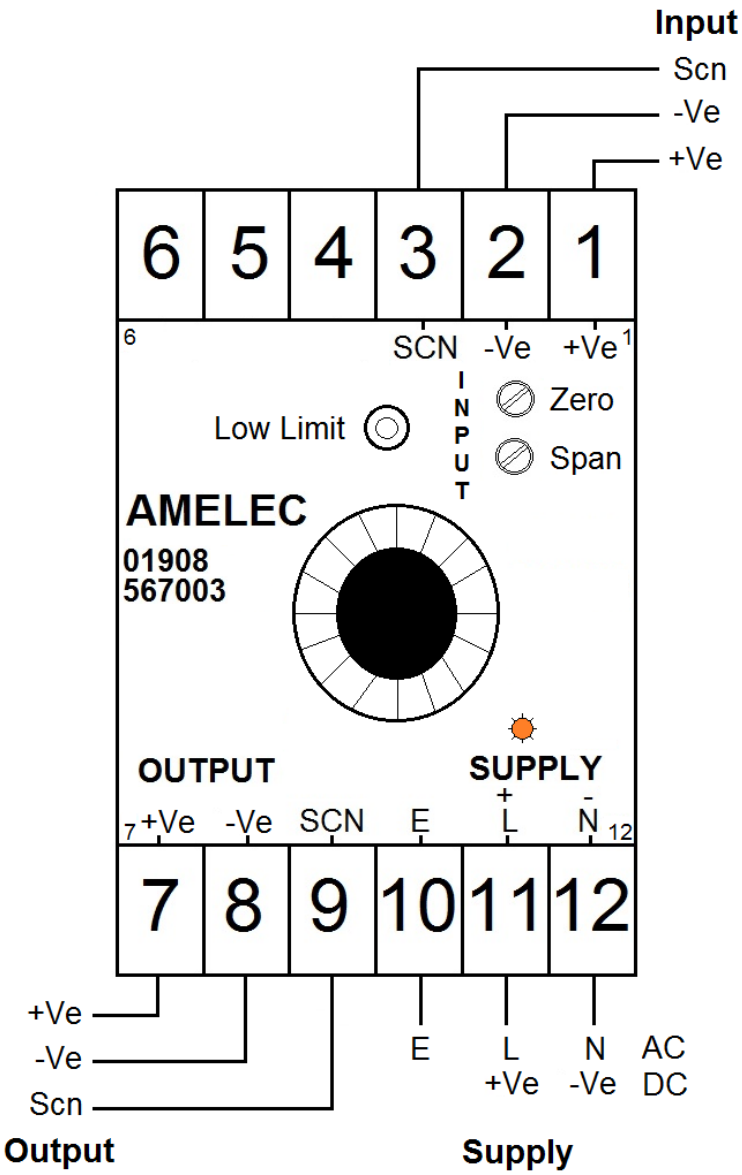
Input Load / Output Drive

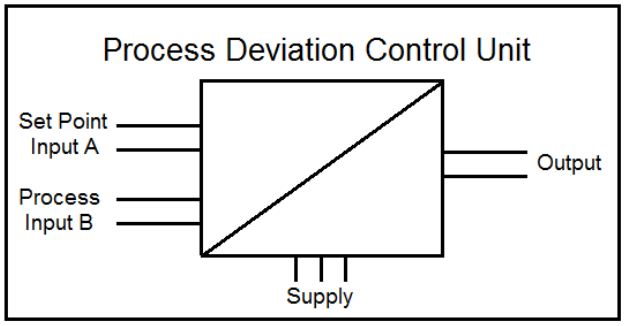
Typical Process Inputs
Current 4-20mA 20Ω
Current 1-5Vdc 1MΩ

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

Issue 1.2015