

# ADM239X2C Process Signal Deviation Transmitter/Isolator

- Suitable for SIL 1, 2 & 3 applications
- Suitable for any process input & output
- Supply voltage: 24Vdc ±2.5V only
- AMELEC Standard 10 year warranty

# **Technical Specifications**

# **Input**

Input 1: 4-20mA representing Vacuum (impedance 20ohms)

Input 2: 4-20mA representing Actual Temperature (impedance 20ohms)

Input open circuit response; Downscale drive.

Input 3: Calibrated Dial on unit front fascia (or 0-5Kohms Remote pot) to set desired constant temperature ref.

#### Output

4-12-20mA to Valve positioner (max load 1200ohms)

#### **Function**

As the vacuum ref. input deviates from actual temperature input by +(xx)%, internal 1st stage Output will increase by +(xx)% until it equals desired constant temp. set point.

As the vacuum ref input deviates from actual temperature input -(yy)%, internal 1st stage Output will decrease by -(yy)% until it equals desired constant temp. set point.

As the internal 1st stage Output deviates from desired set point by +(xx)%, Output will increase by +(xx)% from 12-20mA top operate valve until it equals desired constant temperature.

As the internal 1st stage Output deviates from desired set point by +(yy)%, Output will decrease by -(yy)% from 12-4mA top operate valve until it equals desired constant temperature.

#### Equation

(A-B) -C, (Vacuum = Temp = Output 1st stage internal = 12mA) =(Output 1st stage = Desired = Output = 12mA)

#### Dimension

152w x 81h x 137h (mm)

# **Environmental Conditions**

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

# Input Load / Output Drive

# Typical Input

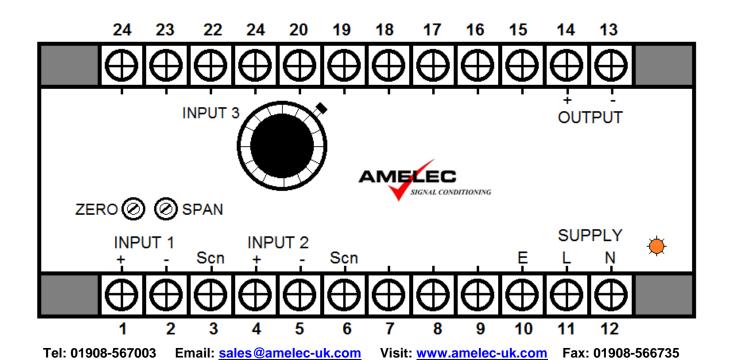
Current 4-20mA  $20\Omega$ Voltage 1-5Vdc  $1M\Omega$ 

# Typical Output

Current 4-20mA max load  $1200\Omega$  Voltage 1-5Vdc min load  $250\Omega$ 

## Isolation

1000V RMS. Input/Output(s)/Supply Accuracy <+/-0.2% Linearity <±0.1%



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