

ADM239X-RSP Process Signal Deviation Controller / Isolator

 Suitable for SIL 1 & SIL 2 rated (EN61508-2) safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)

Supply voltage options: 115Vac ±20%

240Vac ±20% 24Vdc ±10% 48Vdc ±10%

RFI Protection to EN 61000-4-3 available ('K' option)

AMELEC Standard 10 year warranty

Technical Specifications

Input

Input 1; Remote 0-5K Ohms (or 0-10K) potentiometer, to set the desired temperature or other process level

Input 2*; 4-20mA as std, representing actual temperature or process level (Passive/Sink port, Impedance 20ohms).

Output*

4-20mA as std, with a Low signal Limiter adjustable over 0-8mA range by a blindset potentiometer (Active/Source port, max load 1200ohms)

Functions

As the Temperature or other process Input Signal deviates from the Set Point by +(xx)%, the Output will decrease by -(xx)%

As the Temperature Input Signal deviates from the Set Point by -(yy)%, the Output will increase by +(yy)%

When the actual temperature or other process Input signal equals the desired Set Point level, the Output = 12mA.

*(Other mA/Voltage & Bi-polar I/O signal ranges available on request) +Ve ---

<u>Performance</u>

Accuracy/Linearity: <±0.1% Span

Response Time: <400mS as std (10-90% input step change) (Higher speed responses available on request – 'HS' option)

Supply consumption: <3VA

Protection

Isolation: 1000V RMS* Inputs/Output/Supply/Earth. *(500Vdc when 'K' option RFI protection is specified)

Internal Fuse (<250mA)

Input 2 Open Circuit Response: Downscale Drive/0mA input

Environmental Conditions

Storage Temperature: -40 to +70°C
Operating Ambient: -15 to +55°C

5 05% RH (N

Relative Humidity: 5 – 95% RH (Non-Condensing) EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM) ('K' option: EMC/EMI/RFI protection to the highest Generic

Industrial Standards Test levels)

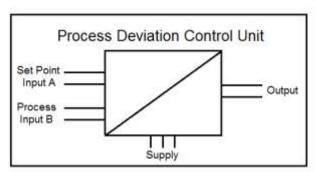
RoHS: 2011/65/EU

+Ve ----Ve ____ Scn -6 SCN Zero Low Limit Span AMELEC 01908 567003 OUTPUT +Ve -Ve SCN 8 E -Ve -+Ve -Ve DC Scn -

WIRING

Remote Set Point

Process Input



Supply

Mounting / Dimensions

Output

Enclosure: 50w x 75h x 110d mm as std, suitable for either Din Rail (TS35) **or** Surface (by corner fixing)

('K' option enclosure = 182d mm, for TS35 Din Rail)

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