

## ADM213 mV Signal Converter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options:
  - 115Vac ±20%
  - 240Vac ±20%
  - 24Vdc ±10%
  - 48Vdc ±10%
  - 110Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any mV range (up to 400mV) may be specified, with a minimum 3mV span.  
 Typical Input: 0-10mV, 0-20mV, 0-30mV, 0-50mV or 0-100mV dc

#### Output

Any standard process current or voltage in the range of;  
 Current source up to 22mA max, with drive voltage 24Vdc  
 (Current Sink option available, 30Vdc max external drive)  
 Voltage source up to 20V max output  
 Typical Output: 4-20mA (max load 1200Ω) or 0-10Vdc (min load 500Ω)

#### Performance

Accuracy/Linearity: <±0.1% Span  
 Response Time: typically <100mS (10-90% input step change)  
 Supply consumption: <3VA  
 Input O/C response: Up or Downscale drive may be specified

#### Protection

Isolation: 1000V RMS\* Input/Output/Supply/Earth.  
 \*(500Vdc when 'K' option RFI protection is specified)  
 Internal Fuse  
 Input over range: up to typically 300%

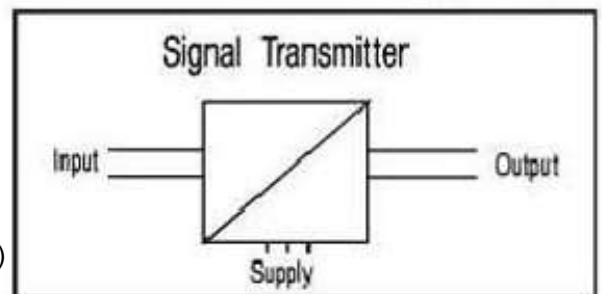
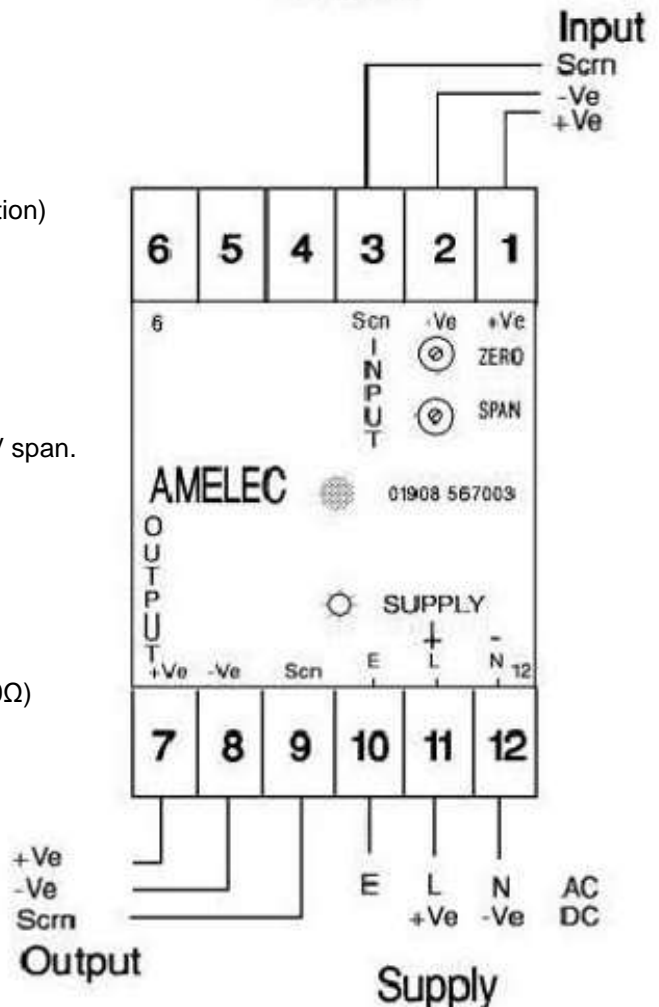
#### Environmental Conditions

Storage Temperature: -40 to +70°C  
 Operating Ambient: -15 to +55°C  
 Relative Humidity: 5 – 95% RH (Non-condensing)  
 EMC: 2014/30/EU , EN 61326-1:2013 (controlled EM)  
 ('K' option: EMC/EMI/RFI protection to highest Generic Industrial levels)

#### Options

**J** = Input jack for injecting an external signal into the input for proof testing, without disturbing the original process loop.  
**DI** = 3½ digit Display: input or output in % or Engineering units to suit  
**K** = RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,  
 80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m.  
**X** = Bi-polar Input &/or Output, or 'other' special option

### WIRING



**Mounting:** Either Din Rail (TS35) **or** Surface by corner fixing holes as standard

**Dimensions:** 50w x 75h x 110d mm

(DI option=145d mm, K option= 182d mm)

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