

# AHM 770X-Transamerica Replacement Strain Gauge/ Load Transmitter

- Suitable for SIL 1 & SIL 2 rated (EN61508-2) safety system loop applications, as 1oo1 architecture (HFT:0)
- 110Vac or 230Vac AC Supply voltage (24Vdc available)
- Non-Smart / Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

#### **TECHNICAL SPECIFICATION**

#### **FUNCTION**

Millivolt input signal Converter / Isolator with field Excitation

# **INPUT SIGNAL**

Any mV range up to 400mV, with Minimum span of 4mV as std (Bi-Polar input signal ranges also available)

#### **EXCITATION OUTPUT**

10Vdc at up to 30mA as std (5V or 24Vdc options available)

#### **ANALOGUE REPEAT OUTPUT**

DC current or voltage specified in the range of:

Current up to 100mA max in Sink configuration (externally powered)

Current up 22mA max Source configuration (Internally

Voltage any from 0.4 to 20V max @ up to 20mA.

Typical output range: 4-20mA (Active port, max load 1200Ω)

# **CONTROLS**

Zero / Span: 15 turn potentiometers to calibrate Output.

# **INDICATOR**

Amber Led: power ON indicator when front plate is fitted

#### **PERFORMANCE**

Response time: Typically <200mS Accuracy/Linearity: <±0.1% span Supply: 115Vac or 230Vac options as std (21-30Vdc supply option available on request)

Supply Consumption: 3VA

Supply Regulation: AC ±20%, DC ±20%

Rear mating Connector: DIN41612 , style D, 32-pole **Cat ID 1090989** spec: 0-30mV, 10Vexc, 4-20mA, 110Vac

# **PROTECTION**

Isolation:1000V RMS\* Input/Excitation/Output/Supply/Earth \*500Vdc when RFI option 'K' rack housing is specified.

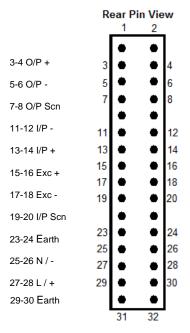
Internal Fuse.

Input Over-range: typically up to 300%.

Output Saturation: 125% max

Input O/C response: Upscale drive as std (>22mA)

# TERMINATION (viewed through front of rack)



# FRONT VIEW (Optional)





## **ENVIROMENTAL CONDITIONS**

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

Relative Humidity: 5 to 95% RH (non condensing) EMC: 2014/30/EU, EN61326-1:2013 (Controlled EM)

### **MOUNTING / DIMENSION**

Card: 3U high 4E wide std for 19" rack mounting

Card weight < 200g,

(Available with Front Bumper/Handle or full Front Plate, to suit existing rack or mechanical swing frame arrangements)

#### **ADD ON / OPTIONS**

TAG: Engraved or printed label on front handle

J : Input injection Jack Test socket
P: Test Point (Output loop monitoring)

K: RFI protection to EN 61000-4-3:2006/A2:2010