

## 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 powered)  
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)

	Rear Pin View	
	1	2
3-4 O/P +	3	4
5-6 O/P -	5	6
7-8 O/P Scn	7	8
11-12 I/P -	11	12
13-14 I/P +	13	14
15-16 Exc +	15	16
17-18 Exc -	17	18
19-20 I/P Scn	19	20
23-24 Earth	23	24
25-26 N / -	25	26
27-28 L / +	27	28
29-30 Earth	29	30
	31	32

#### 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