

AHM990DI Common Display Unit

- Suitable for SIL 1 & 2 rated (IEC61508) safety system loop applications, as 1001 architecture (HFT:0)
- Supply voltage 21 to 30Vdc
- RFI Protection to IEC61000-4-3:2006/A2:2010 available
- AMELEC Standard 10 year warranty

TECHNICAL SPECIFICATION

FUNCTION

Operating the push buttons (Read & Trip) on any instrument card mounted within the rack(s), will show the relevant input & trip set point levels within the range scaled on this Common Display module.

INPUT

When used as a common display within our AH Series19" Rack systems, the Input signal is from the internal Read line and is typically 0-2Vdc.

Can be used simply as a display within either RIS or AMELEC high density 3U high 19" Racks. Any DC current / voltage can be specified in the range of:

Current up to 100mA max (Passive)

Voltage 0.4 up to 150V max

Typical input: 4 - 20mA (Passive, impedance 20 ohms)

DISPLAY

Three and a half digit Liquid Crystal Display,

Factory settable as requested in the range of: -1999 to +1999 to suit the application.

Typically scaled: 0 -100.0 or 0 - 100 (%)

CONTROLS

Zero / Span: 15-turn potentiometer to calibrate Display range

INDICATOR

Amber Led: power ON indicator

PERFORMANCE

Linearity: < ±0.1%

Response time: Typically <200mS

Accuracy: < ±0.1%

PROTECTION

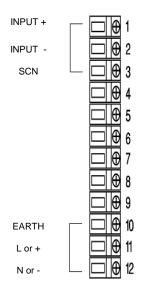
Isolation 1000V RMS*. Input/Supply/Earth *500Vdc if RFI option (K) is specified.

Internal Fuse.

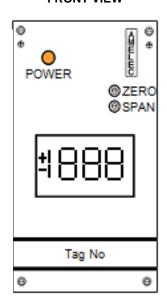
Input O/C response: Downscale drive or Blank display.

Input over range typically at 300%.

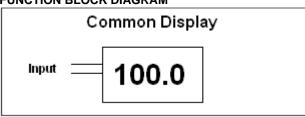
TERMINATION



FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

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

MOUNTING / DIMENSION

To the extreme right of the rack, occupying 3x std positions Card 3U high 12HP wide front plate Mounting: 19" rack / 84E wide (See rack GA for details) Card weight < 200g

ADD ON / OPTIONS

J: Input injection jack socket on front fascia

P: Test point on front fascia

K: RFI protection to IEC61000-4-3:2006/A2:2010 Non standard Power supply ranges available

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