

AEP450EP Series AC V/I Input Transducers

- Suitable for a wide range of AC Current or Voltage signal monitoring applications.
- True Universal: 21V through to 264V AC/DC supply
- 3 Year Warranty as standard

APPLICATION

- Any application where an AC V/I signal is required to be isolated, converted and re-transmitted.

TECHNICAL SPECIFICATION

INPUT

AEP451EP / AEP453EP: AC current: up to 5A max
Typical input range: 0-1A or 0-5A ac.

AEP452EP / AEP454EP: AC Voltage up to 300V max
Typical input range: 0-100Vac or 0-220Vac.

OUTPUT

DC current or voltage available in the range of:
0 – 20mA, 4 – 20mA (dc) into 650 ohms max load.
0 - 5V, 0 – 10V, 1 – 5V, 2 – 10V (dc) into 1.5Kohms min.

Typical output range:

AEP451EP / AEP452EP; 1x 4-20mA

AEP453EP / AEP454EP; 2x 4-20mA (o/p2 terms: 7+,8-)

CONTROLS

15 turn potentiometers for each output channel.
Zero(s) $\pm 10\%$ per output channel
Span(s) $\pm 10\%$ per output channel

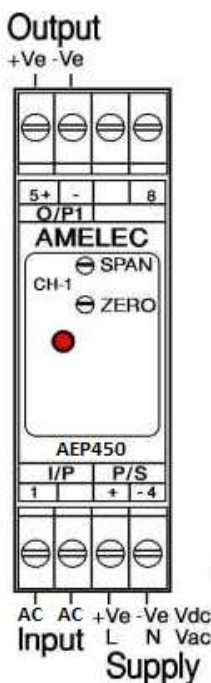
PERFORMANCE

Response time: < 400mS
Accuracy: < $\pm 0.5\%$
Supply regulation: $\pm 20\%$
Supply consumption: <3.5VA

PROTECTION

Isolation: Input/Output/(Output2)/Supply
Internal Fuse.
Input over range up to typically 300%.

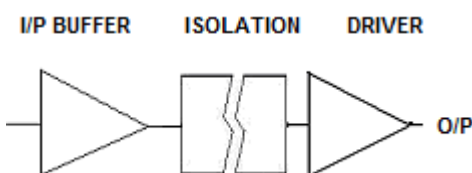
TERMINATION



FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: - 20 to +70 °C
Operating Ambient: -5 to +60 °C
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)

WIRING/MOUNTING / DIMENSION

Screw terminal blocks
Enclosure: 22.5 x 75h x 105d mm
Mounting: Din rail (TS35)
Weight < 250g