

## ADM240XX-Fan - Potentiometer Input Conditioner

- Amelec standard 2 year warranty
- Suitable for SIL Level 1, 2 (IEC 61508-2)

### TECHNICAL SPECIFICATION

#### INPUT

**Any Potentiometer can be specified in the range of:**

1K ohms to 10K ohms.

(Input excitation 1.2V dc @ 2mA max)

Or 4-20mA via 68R resistor across TB 8+9.

Recalibrate O/P (according to which I/P is being used) using front plate Zero Span pots.

#### OUTPUT 1

Output set by remote input potentiometer / mA I/P in the range of 0 to 10V with up to 0.4A drive.

#### SUPPLY

Control supply: 24Vdc +/- 10% @ 300mA

Output supply: 10Vdc @ 0.4A min

#### INDICATOR

Power ON: LED, Amber.

TRIP 1: Red LED to de-energise Overheat / Cut-out

TRIP 2: Green LED to de-energise Cooling fan ON.

#### PERFORMANCE

Temp co-efficient: 200ppm

Linearity: < ±0.1%

Response time: Typically < 400ms

Accuracy: < ±0.1%

Supply regulation: ± 10%

Supply consumption: <3VA

#### PROTECTION

2 x 1A fuse located under unit externally (O/P + Supply).

O/P fuse nearest to the front plate.

I/P fuse furthest to the front plate.

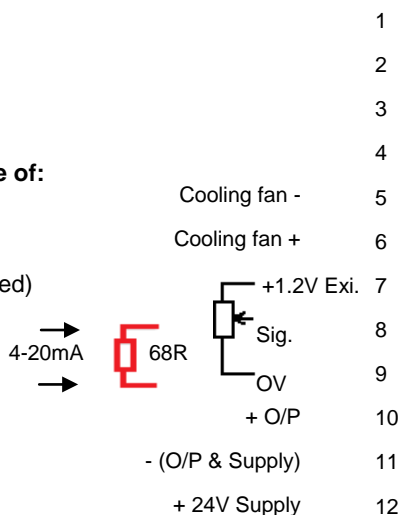
Trip 1 Fault / Output cut-out @ 125 C, re-set 80 C.

Trip 2 Over heat cooling fan ON @ 40 C, off 30 C.

Isolation 500V DC: IP/Supply OP/Earth

Continuous Input short circuit protection.

#### TERMINATION



#### FRONT VIEW



**WIRING:** 45 deg, screw terminal, 12 – 26 AWG / 250VDC / 16A

#### ENVIROMENTAL CONDITION

Storage temperature: - 40 to +70 °C

Operating Ambient: -15 to +55 °C

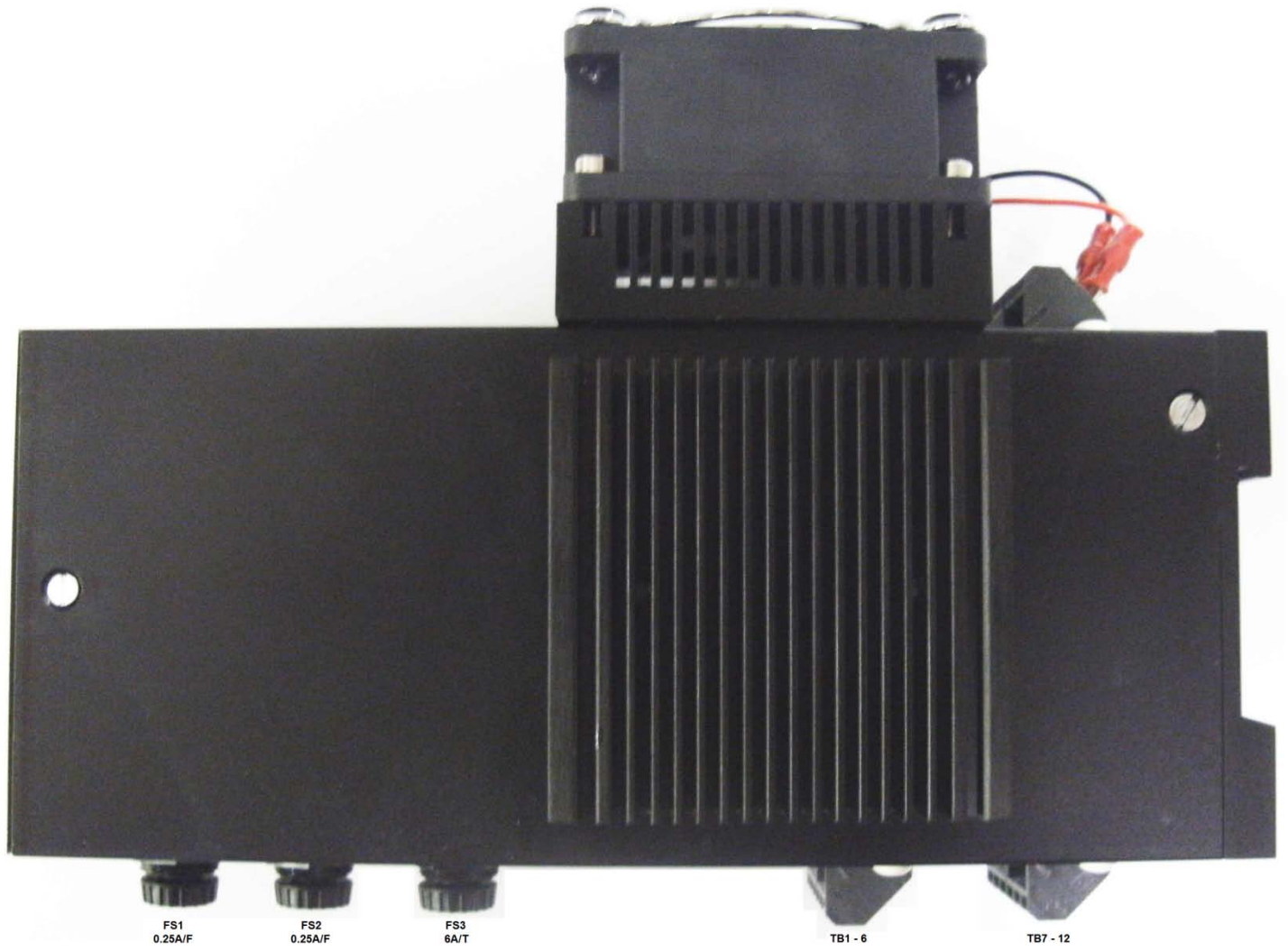
Relative Humidity: 5 to 95% RH

#### MOUNTING / DIMENSION

Enclosure: 83w x 132h x 182d

Mounting: 35mm Din rail (optional Surface /Panel Mount)

Weight < 500g



FS1  
0.25A/F

FS2  
0.25A/F

FS3  
6A/T

TB1 - 6

TB7 - 12