

AMT240XX Constant Current Generator

- Amelec standard 2 year warranty
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

INPUT

Any Potentiometer can be specified in the range of:
1 K ohms to 10K ohms.
(Input excitation 1.2V dc @ 2mA max)

OUTPUT 1

Output set by remote input potentiometer in the range of
0 to 8A with up to 18.5V drive with minimum load of 1.5Ω.

OUTPUT 2

0 – 80 mV DC signal representing 0 - 8A output current.

SUPPLY

Control supply: 12 to 20Vdc @ 300mA min
Output Drive: 12Vdc @ 4A min, 20V dc @ 8A

INDICATOR

Power ON: LED, Amber.

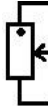
PERFORMANCE

Temp co-efficient: 200ppm
Linearity: < ±0.1%
Response time: Typically, < 400mS
Accuracy: < ±0.1%
Max Supply consumption: 160Watts
Max permissible power
Dissipation within the Unit: 50W

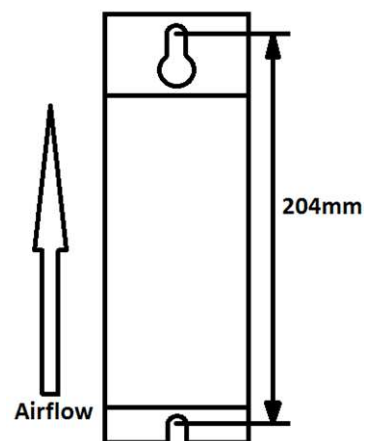
PROTECTION

Control Supply: Internal 1A fuse (T).
Output Supply: External fuse required
Output: External fuse required
Overheat cut-out @ 80C, re-set 60 C.
Isolation 500V DC: (IP + OP)/Supply/Earth
Continuous Input short circuit protection.

TERMINATION

	1
	2
	3
Supply +	4
O/P 1 +	5
NC	6
O/P 1 -	7
O/P2 (0-80mV) +	8
O/P2 (0-80mV) -	9
Supply -	10
NC	11
Earth	12

FRONT VIEW



MOUNTING / DIMENSION

Enclosure: 60w x 217h x 197d mm
Mounting: Surface Mount / rear Keyhole plate
Weight: 2Kg

When mounting ensure the top and bottom vents are clear to allow for sufficient airflow.

ENVIRONMENTAL CONDITION

Storage temperature: -40 to +70 °C
Operating Ambient: -5 to +40 °C
Relative Humidity: 5 to 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)