



# SET POINT GENERATOR

Types 107-1A, 107-1F & 107-1/RP

## Features

- \* *Adjustable or fixed set point versions*
- \* *Wide range of outputs*
- \* *Screw fixing or DIN rail mounting*



## FUNCTION

The Set Point Generator provides a current or voltage output for applications requiring a reference signal.

Set point generator units are configured during manufacture to suit the required output signal.

Three types of unit are available:

**107-1A** The output signal is proportional to the setting of a front panel mounted ten-turn dial. The dial is scaled 0-100% of full scale output.

**107-1F** The output signal is set to a specified fixed value.

**107-1/RP** As 107-1A but the set-point potentiometer and dial are supplied loose for remote mounting e.g. in a control panel or enclosure door.

## Information Required When Ordering

- Specify type: 107-1A (adjustable set point), 107-1F (fixed set point) or 107-1/RP (remote pot & dial)
- Output signal (see specification overleaf)
- Supply voltage and frequency
- Whether a DIN Rail Mounting clip is required

## SPECIFICATION

### GENERAL NOTE

These units can be manufactured for other output ranges. Please contact our sales department for details.

### OUTPUTS

0-10 mA into 2000 (5000) ohms max. } figures in  
0-20 mA into 1000 (2500) ohms max. } brackets are  
4-20 mA into 1000 (2500) ohms max. } options  
0-5v into 500 ohms min.  
1-5v into 500 ohms min.  
Current Sink 4- 20 mA @ 50 Volts max.

### CALIBRATED ACCURACY

Output set at 100% to be within  $\pm 0.2\%$  FSD

### LINEARITY ERROR

Set point linearity error  $\leq \pm 0.25\%$  FSD

### LOAD RESISTANCE EFFECT

$\leq 0.001\%$  of span/100 ohm change.

### ISOLATION

The output is isolated from the power supply.

### TEMPERATURE COEFFICIENTS

Zero:  $\pm 0.02\%$  span/°C

Span:  $\pm 0.02\%$  span/°C

### SUPPLY VOLTAGE REJECTION

Output change  $< 0.01\%$  span / % supply change.

### ENVIRONMENTAL

Temperature range:

operating -10 to +50 deg C;

storage -20 to +70 deg

Humidity: 0-95% RH non-condensing

### POWER SUPPLY

A LED indicates when the power supply is connected.

**Standard AC:** 110, 220 or 240V  $\pm 10\%$  50/60Hz; 5VA

Fuse (internal) 100mA quick-blow (20 x 5mm)

**Optional DC:** 12, 24 or 48V -10% to + 20%; 3.5W

Fuse (internal) 250mA anti-surge (20 x 5mm)

### ENCLOSURE DETAILS

Base: Phenol (black)

Cover: Polystyrol (light grey)

Protection: IP40

### SAFETY & EMC

Safety: EN61010-1

Emissions: EN50081-1

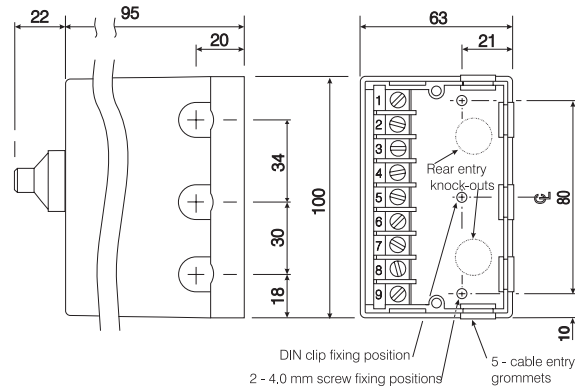
Immunity: EN50082-1

CE certified

### WEIGHT

Approximately 0.5 kg

### DIMENSIONS



### ELECTRICAL CONNECTIONS

Terminal

|   |                          |                   |                                       |                    |
|---|--------------------------|-------------------|---------------------------------------|--------------------|
| 1 | — Line                   | } AC Mains Supply | Positive (+)<br>Negative (-)<br>Earth | } DC Supply Option |
| 2 | — Neutral                |                   |                                       |                    |
| 3 | — Earth                  |                   |                                       |                    |
| 4 | — Output common (-)      |                   |                                       |                    |
| 5 | — Output (+)             |                   |                                       |                    |
| 6 | — no internal connection |                   |                                       |                    |
| 7 | — (reserved)             |                   |                                       |                    |
| 8 | — (reserved)             |                   |                                       |                    |
| 9 | — (reserved)             |                   |                                       |                    |

**Please Note:** Options are not available unless specified at time of order.



**THIS UNIT CAN BE MAINS POWERED, AND ALL INPUTS TO IT MUST BE ISOLATED FROM DANGEROUS VOLTAGES BEFORE THE FRONT COVER IS REMOVED. LIVE TERMINALS WILL BE EXPOSED.**

Continuous development may necessitate changes in these details without notice

# SIL

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