



# POWER SUPPLIES

Single Output • Dual Output

Types 107-9s, 107-9s/2

## Features

- \* **Universal input supply 85-260 VAC**
- \* **Single and dual output versions**
- \* **High efficiency - cool running**
- \* **Screw fixing or DIN rail mounting**

A range of general purpose instrumentation power supplies for powering two-wire transmitters operating on 4-20mA signals or powering 24V signal conditioning modules



## SPECIFICATION

### OUTPUTS

(NB other outputs may be available)

#### Type 107-9s

24 Volts  $\pm$  0.2V @ 100mA  
36 Volts  $\pm$  0.2V @ 50mA  
48 Volts  $\pm$  0.2V @ 50mA

#### Type 107-9s/2

Two outputs, each 24 Volts  $\pm$  0.2V @ 40mA

### OUTPUT RIPPLE

$\leq$  0.1% of output voltage

### LOAD EFFECT ON OUTPUT

0.002% of output voltage / mA load change

### INPUT SUPPLY VOLTAGE REJECTION

$\leq$  0.01% Vout / 85-240V change

### INPUT POWER

Universal 85-240VAC 50/60Hz 2.5VA  
Protected by a fusible resistor.

### STABILITY

Over 24 hours:  $\pm$  0.1% Vout  
Over 1 year:  $\pm$  0.5% Vout

### ISOLATION

The output(s) are isolated from the input power and the outputs on the 107-9s/2 are isolated from each other.

### TEMPERATURE COEFFICIENT

$\pm$  0.03% Vout / °C

### TEMPERATURE RANGE

Operating: -10°C to + 60°C  
Storage: -20°C to + 70°C

### SAFETY & EMC

Safety: EN61010-1  
Immunity: EN50082-1  
Emissions: EN50081-1  
CE certified

### ENCLOSURE DETAILS

Base: Phenol (black)  
Cover: Polystyrol (light grey)  
Protection: IP40

### WEIGHT

Approximately 0.1 kg

### Information required when ordering

- Specify type 107-9s (single) or 107-9s/2 (dual)
- Output voltage(s) (see specification overleaf)

## INSTALLATION



SWITCH OFF ALL POWER SUPPLIES AND ISOLATE FROM DANGEROUS VOLTAGES BEFORE COMMENCING WORK ON THE INSTRUMENT

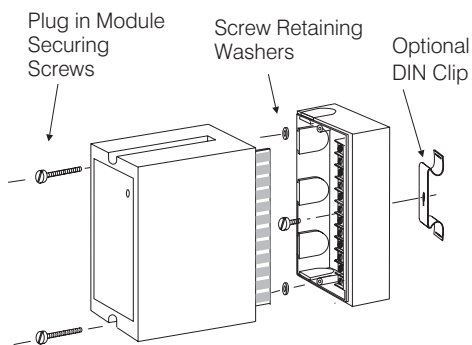
### Wiring

Grommets are provided on three sides of the base section and there are two rear entry knock outs in the bottom.

Good instrumentation practice should be observed when wiring between power supply and other instrumentation to ensure segregation of mains supply, power supply output and signal wiring.

### Power supply considerations

Power supply wiring to the instrument should be protected by a suitable fuse and double-pole isolating switch.



### Access to Terminals

Isolate all supplies to the unit. Loosen the two module securing screws. (NB these screws are retained in the top section by captive washers). Gently pull away the top section of the module from its base to expose the fixing points and wiring terminals. To refit the module, align the module edge connectors with the socket in the base and carefully press home.

**NB** do not overtighten the module securing screws.

## ELECTRICAL CONNECTIONS

### Supply

- |   |         |                         |
|---|---------|-------------------------|
| 1 | Line    | } AC<br>Mains<br>Supply |
| 2 | Neutral |                         |
| 3 | Earth   |                         |

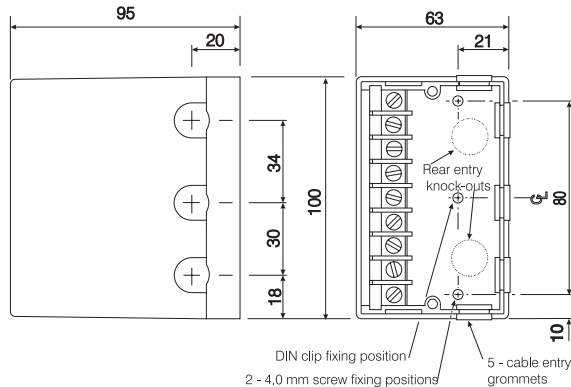
### Output 2 (107-9s/2 only)

- 4 Vout (-)
- 5 Vout (+)
- 6 no internal connection

### Output 1

- 7 Vout (+)
- 8 Vout (-)
- 9 no internal connection

## DIMENSIONS



**WARNING** 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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