



PULSE GENERATOR

TYPE 160-52

- Switch selectable output pulse rates
- Optional relay or open collector outputs
- Remote output inhibit (hold) function

The 160-52 provides a pulsed output signal for testing, simulation and other applications requiring switched set-point frequencies.

Up to five set-points are provided as standard and are selected by a rotary switch on the front of the instrument. The output signal may be put on hold by a remote output inhibit signal.



TYPICAL APPLICATIONS

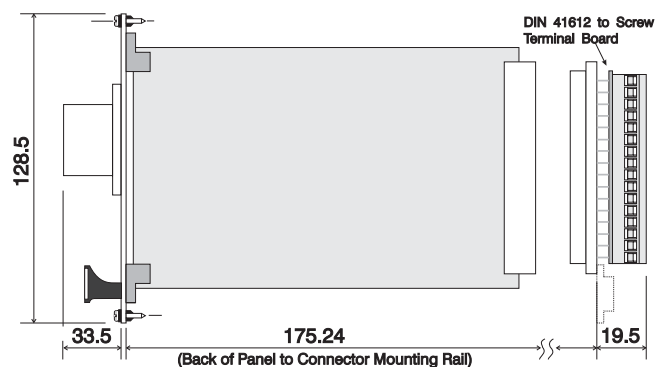
- Set-points for vibration test rigs
- Simulation of metering pulses
- Dosing pump and sampling applications

Ordering information

- Type of output (see specification overleaf)
- Output pulse rates
- Desired output pulse width
- Supply voltage and frequency

DIMENSIONS

Front panel width 12HP (60.96mm)



SPECIFICATION

SET-POINT

A front panel mounted switch selects one of five* output pulse rates. (*Please enquire more ranges).

OUTPUT INHIBIT

Contact closure or open collector transistor

OUTPUT OPTIONS

The type required must be specified at the time of order. (Other pulse output voltages (e.g. 5V) and pulse widths available to order.)

- a) Optically isolated open collector transistor.
- b) 24 Volt pulse of duration 60ms
- c) Relay change-over contact. (FSD=10Hz Max)

PULSE RATE

Calibrated as required within the following full scale limits:

- Minimum: 0.0012 pulses per second
- Maximum: 5000 pulses per second

CALIBRATED ACCURACY

Set at 100% to be within $\pm 0.1\%$ FSD.

LINEARITY ERROR

$\leq \pm 0.35\%$ FSD.

STABILITY

Over 24 hours $\pm 0.05\%$ FSD.
Over 1 year $\pm 0.1\%$ FSD.

TEMPERATURE COEFFICIENTS

Zero: $\pm 0.02\%$ span/ $^{\circ}\text{C}$
Span: $\pm 0.02\%$ span/ $^{\circ}\text{C}$

TEMPERATURE RANGE

Operating: -10°C to $+60^{\circ}\text{C}$
Storage: -20°C to $+70^{\circ}\text{C}$

SUPPLY VOLTAGE REJECTION

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

ISOLATION

The output is isolated from the power supply.
Maximum voltage 250V RMS or 400V DC.
Resistance $\geq 50 \times 10^6$ ohms measured at 1000VDC.

POWER SUPPLY

AC 110/220/240V $\pm 10\%$ 50/60Hz 5VA
DC 12/24v -10% $+20\%$ 3.5W

SAFETY & EMC

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

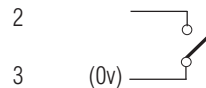
WEIGHT

Approx. 670 grams.

TERMINAL CONNECTIONS

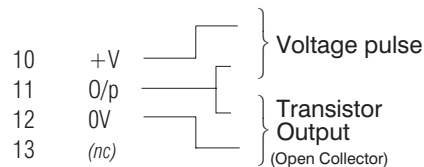
1, 4 no internal connection (nc)

Inhibit Function



Outputs

7 Normally Closed } Relay Output Option
8 Common }
9 Normally Open }



Supply

14 Earth
15 Neutral
16 Line

DC Supply Option

Earth
Negative (-)
Positive (+)



Wall, DIN rail and panel mount enclosures available see 160 Series Datasheet

Please Note: Options are only available if 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

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