

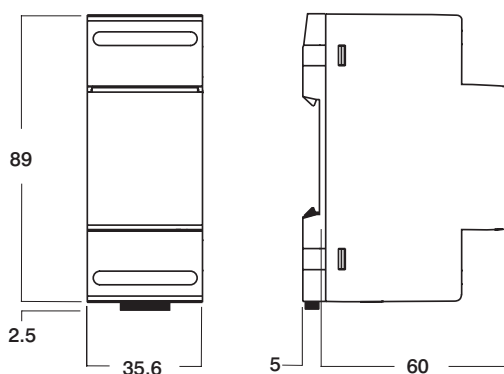


Features

- Field selectable output ranges
- Compact size 36mm x 89mm
- DIN rail mounting

The TM3U is a transducer for measuring single-phase AC currents. The AC current input is converted into a proportional DC analogue signal output. Output signal ranges are selectable by switches on the front panel. A transparent cover over the switches has provision for fitting a wired seal to prevent unauthorised access.

Dimensions in mm



Information required when ordering

- Quote part number 'ACT'
- Input Signal
- Output Signal
- Supply Voltage and Frequency

SPECIFICATION

INPUTS

Current ranges (I_n): 1A, 5A
Sinusoidal waveform, form factor 1.11
Measuring range: 0 - 120% I_n
Frequency: 50/60Hz (400Hz on request)

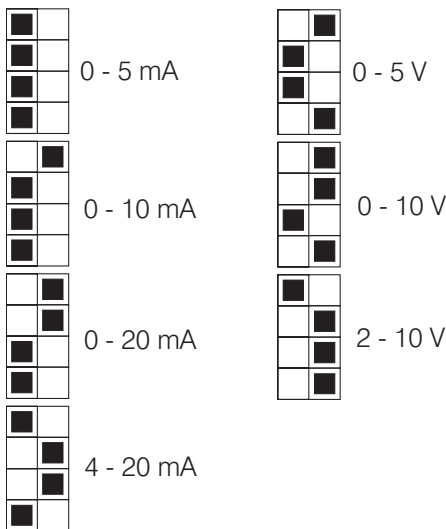
OUTPUTS

Switch selectable
Current:

0-5mA into 3000 ohms max
0-10mA into 1500 ohms max
0-20mA into 750 ohms max
4-20mA into 750 ohms max

Voltage: 0-5V into 5000 ohms min
0-10V into 5000 ohms min
2-10V into 5000 ohms min

Switch settings:



ACCURACY

Class 0.5

INPUT OVER-RANGE

3 I_n continuous, 20 I_n / 1s

RESPONSE TIME

≤ 300ms

RIPPLE

≤ 1%

INPUT BURDEN

≤ 0.2VA

AUXILLIARY SUPPLY

115 or 230VAC 50/60 Hz ± 10% ≤ 3VA

INSULATION

Input to output: 2kV 50Hz / 1 min
All circuits to earth: 4kV 50Hz / 1 min
Impluse: 5kV 1.2/50 μ s

ENVIRONMENTAL

Temperature range:

Operating: 0 - 45 deg C

Storage: -25 - 70 deg C

Relative humidity:

up to 75% suitable for tropical climates

EMC

Emissions: EN50081-1

Immunity: EN50082-2

CE certified

MECHANICAL

Weight: 200g

Connections: screw terminals, capacity up to 4mm²

Mounting: DIN rail (top hat TH35-15 EN60715)

Protection: Front frame IP 40, Terminals IP 20

TERMINAL CONNECTIONS



WARNING: Ensure that power to the instrument is switched off and signal wiring isolated from hazardous voltages before carrying out installation or maintenance.



WARNING: Installation should be conducted by appropriately skilled and authorised personnel only.

Input

1 } AC Current input signal
3 }

Output

17 Voltage output signal (-)

18 Current output signal (-)

19 Output signal (+)

Supply

20 Line

21 Neutral



WARNING: THIS UNIT IS MAINS POWERED. ISOLATE WIRING FROM DANGEROUS VOLTAGES BEFORE INSTALLING OR CARRYING OUT MAINTENANCE WORK.

Continuous development may necessitate changes in these details without notice

SIL

STROUD INSTRUMENTS LTD.
36-40 Slad Road, Stroud, Glos. GL5 1QW, England
Telephone: +44 (0)1453 765433 Fax No: +44 (0)1453 764256
www.sil.co.uk