0.1 % ACCURACY

SINGLE - PHASE

CURRENT OUTPUT

WIDE INPUT AND OUTPUT RANGES

COMPLETE ISOLATION

3 YEAR WARRANTY



The WT-1 is an active power transducer.

The unit provides proportional dc current output extracted from the voltage and current inputs and their relative phase angle.

The WT-1 can be calibrated to wide input ranges.

The WT-1 provides complete galvanic isolation by applying transformers that isolate among input voltage, input current, output and power supply sections.

Exceptional input to output high common mode rejection (CMR) and a high degree of filtering, provide a low ripple output current.

The WT-1 output module design enables a wide selection of output formats. The advanced circuitry design makes the WT-1 a top grade instrument, offering true 0.1% accuracy of power measuring.

The WT-1 is housed in a polycarbonate plastic enclosure mounted on a standard DIN rail.

INPUTS

CONNECTION: 1 phase

POWER FACTOR: Unity - to, lead or lag, zero

CALIBRATION SPAN: ±170 to ±10,000 W

OVER RANGE: +42% (at full accuracy)

ISOLATION:

2.5 KV RMS/1 minute (current input)4KV RMS/1 minute (voltage and mains)

CURRENT

CURRENT SPANS: 1 - 5 Aac RMS

(up to 10 Aac - optional)

CURRENT OVER RANGE: +20%

(at full accuracy)

PEAK OVERLOAD: 40 Aac RMS, for 5 seconds

every 10 minutes

VOLTAGE

VOLTAGE SPANS: 85 - 500 Vac

VOLTAGE OVER-RANGE: +20%

(at full accuracy)

VOLTAGE OVERLOAD : 1.6 x [nominal rating]

continuous, limited to 600 Vac

FREQUENCY

FREQUENCY RANGE: 50, 60, 400 Hz

FREQUENCY VARIATION EFFECT: ±0.02%/Hz

POWER SUPPLY

SUPPLY RANGES: 115, 230 Vac ±10%

and Self-powered

BURDEN

INPUT CURRENT: 0.26 VA @ 5 Aac

INPUT VOLTAGE:

0.15 VA @ 150 Vac, 0.3 VA @ 300 Vac

SUPPLY: 2.4 - 2.6 VA @ 115/230 Vac at 20 mA

<u>OUTPUT</u>

OUTPUT CONFIGURATION: 0/4 – 20mA

MAXIMUM OUTPUT LOAD:

Rload ($K\Omega$) = 16/Iout (mA)

LOAD VARIATION EFFECT: < ±0.03% of span

RESPONSE TIME: < 200 msec (10-90% of span)

ACCURACY: ±0.1% of span typical at 5 - 100%

range

<u>TEMPERATURE</u>

OPERATING : -5 to +65°C STORAGE : -35 to +85°C

TEMPERATURE STABILITY:

 $< \pm 0.01\%$ of span/1°C

HUMIDITY: 5 - 95% relative, non condensed

HOUSING: Plastic Polycarbonate

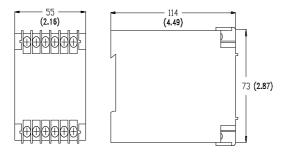
PROTECTION LEVEL:

Box: According to IP-40

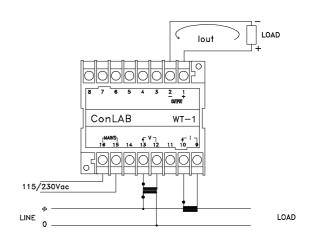
Terminals: According to IP-20

WEIGHT: 0.5 Kg

Dimensions mm (intch)



Connection Diagram



Ordering Information

WT-1	-S	-F1	-V2	-I2	-U	-P2	
	S: Self Powered A: 115 Vac B: 230 Vac	F1: 50 Hz F2: 60 Hz F3: 400 z	V1: 115 Vac V2: 230 Vac V3: 380 Vac	I1: 0-1 Aac I2: 0-2 Aac I3: 0-3 Aac I4: 0-5 Aac	U: Uni B: Bi Directional	P1: 0-1mA P2: 0-5mA P3: 0-10mA P4: 0-20mA P5: 4-20mA P6: 4-12-20mA	P7: 0-1V P8: 0-5V P9: 0-10V P10: 1-5V P11: 2-10V