

Combined Watt/Var Transducers

DRA-WVT-3 Series

- ✓ ± 0.1% Accuracy
- ✓ Galvanically Isolated
- ✓ Two Simultaneous Outputs for Watt and VAR
- ✓ Single Phase & Three Phase Models

The DRA-WVT-3 Series combines watt and VAR transducers in one compact housing. Two simultaneous proportional dc current outputs are provided for watt and VAR parameters. The polarity of the watt output is positive for unity power factor (PF); polarity for the VAR output is positive for lagging power factor.

Specifications

GENERAL

Accuracy: ±0.1% of span typical for watt in 5-140% range

Temperature Stability: < ±0.01%/°C

Response Time: < 200 millisecond (10-90% of span)

Power Supply: 115 Vac -15/+25%, 230 Vac -15/+25%, 60Hz

Power Overload: withstands 1.45 x nominal rating continuous

Input Current Consumption: 0.26 VA @ 5 Aac

Input Voltage Consumption: 0.15 VA @150 Vac, 0.3 VA @ 300 Vac

Frequency: 60 Hz

Frequency Variation Effect: < ±0.02%/Hz (for watt output)

Operating Ambient: 23 to 149°F (-5 to 65°C); 5 to 95% RH, noncondensing

Storage Temperature: -31 to 185°F (-35 to 85°C)

Enclosure: polycarbonate

Mounting: standard 35 mm DIN rail or wall mount

Dimensions: 2.87"H x 3.94"W x 4.41"D (73 x 100 x 112 mm)

Weight: 1.3 lb (0.6 kg)

INPUTS

Connection: single phase or 3-phase, 3-wire

Power Factor: unity-to, lead or lag, zero

Power Calibration Span: ±170 to ±10,000 watt/var

Overrange: +42% (at full accuracy)



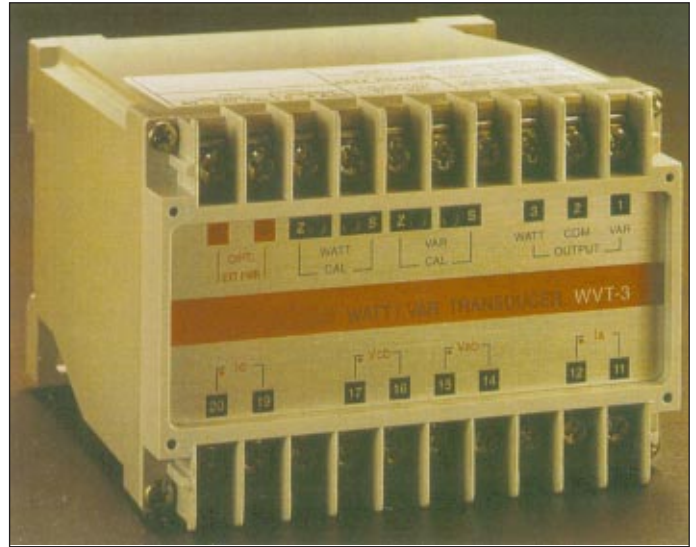
\$445
Basic Unit



WATT



VAR



Isolation: 2 KV RMS/1 minute for voltage and power inputs; 4 KV for current inputs

CURRENT INPUTS

Current Span: 5 Aac

Current Overrange: +20% (at full accuracy)

Peak Overload: 40 Aac RMS for 5 seconds every 10 minutes

VOLTAGE INPUTS

Voltage Span: 115 Vac, 230 Vac

Voltage Overrange: +20% (at full accuracy)

Voltage Overload: 1.6 x nominal rating continuous, 600 Vac max

OUTPUTS (WATT & VAR)

Output Configuration: unipolar or bipolar current

Output Span: 4-20 mA, 12 ± 8 mA

Maximum Output Load: Rmax (KOhms) = 16/Iout (mA)

Output Impedance: Z (KOhms) = 0.1 x Vo (Vdc)

Load Variation Effect: < ±0.03% (for full change)

To Order (*Specify Model Number*)

Model No.	Price	Input	Input Freq*	Output Watt**	Output VAR**	Power Required
ac Watt/Var (Single Phase)						
DRA-WVT-3-1A	\$445	115 Vac/5A	60 Hz	4-20 mA	4-20 mA	115 Vac
DRA-WVT-3-1B	445	230 Vac/5A	60 Hz	4-20 mA	4-20 mA	115 Vac
DRA-WVT-3-1C	445	115 Vac/5A	60 Hz	4-20 mA	4-20 mA	230 Vac
DRA-WVT-3-1D	445	230 Vac/5A	60 Hz	4-20 mA	4-20 mA	230 Vac
DRA-WVT-3-1E	445	115 Vac/5A	60 Hz	12±8 mA	12±8 mA	115 Vac
DRA-WVT-3-1F	445	230 Vac/5A	60 Hz	12±8 mA	12±8 mA	115 Vac
DRA-WVT-3-1G	445	115 Vac/5A	60 Hz	12±8 mA	12±8 mA	230 Vac
DRA-WVT-3-1H	445	230 Vac/5A	60 Hz	12±8 mA	12±8 mA	230 Vac
ac Watt/Var (3-Phase 3-Wire)						
DRA-WVT-3-3A	485	115 Vac/5A	60 Hz	4-20 mA	4-20 mA	115 Vac
DRA-WVT-3-3B	485	230 Vac/5A	60 Hz	4-20 mA	4-20 mA	115 Vac
DRA-WVT-3-3C	485	115 Vac/5A	60 Hz	4-20 mA	4-20 mA	230 Vac
DRA-WVT-3-3D	485	230 Vac/5A	60 Hz	4-20 mA	4-20 mA	230 Vac
DRA-WVT-3-3E	485	115 Vac/5A	60 Hz	12±8 mA	12±8 mA	115 Vac
DRA-WVT-3-3F	485	230 Vac/5A	60 Hz	12±8 mA	12±8 mA	115 Vac
DRA-WVT-3-3G	485	115 Vac/5A	60 Hz	12±8 mA	12±8 mA	230 Vac
DRA-WVT-3-3H	485	230 Vac/5A	60 Hz	12±8 mA	12±8 mA	230 Vac

* Consult engineering for 50 Hz and 400 Hz models. Comes with complete operator's manual.

** Models with ±1mA or ±20mA outputs are also available. Consult engineering.

Ordering Example: DRA-WVT-3-3A 3-phase, 3-wire watt/VAR transducer, 115 Vac/5A 60 Hz input, 4-20 mA outputs for watt and VAR, 115 Vac power, \$485.