

TW8201 AC INPUT ISOLATED TWO-WIRE TRANSMITTER

FEATURES

- Provides DC Current Output
 Proportional to AC Input
- Fully Isolated Input / Output
- 100 mV or 100 microamps Minimum Input Span
- Unlimited* Choice of Input Ranges
- Low-Drift Chopper-Stabilized
 Input
- NEMA-4X Splashproof and Corrosion Resistant
- · 5 Year Warranty

DESCRIPTION

The TW8201 provides a DC output current proportional to an AC input signal.

Isolation is provided in the transmitter. The transmitter is protected by a gasketed, NEMA-4X glass-filled polyester housing and operates from -40°C to +85°C. Optional conformal coating of the electronic components makes the TW8201 extremely reliable and resistant to the corrosion, moisture and fungus associated with many industrial environments.

The chopper-stabilized input amplifier provides accurate, low-drift operation. All Wilkerson Products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning.

The output ZERO and SPAN controls are accessible through the top of the housing.

Terminations are made to screw terminal connectors on the top of the case.

TYPICAL APPLICATIONS

Remote AC data acquisition, isolation, AC motor status and control.

SPECIFICATIONS

INPUT RANGE

Voltage

select any range from 0 to 250 V rms max (min span 100 mV)

Current select any range 0 to 5 A rms max** (min span 100 µA, internal shunt)

INPUT FREQUENCY

40 Hz to 1 kHz Sinewave

INPUT IMPENDANCE

Voltage

Input Shunt Value
100 OHM
10 OHM
5 OHM
1 OHM
0.1 OHM

OUTPUT RANGE

4/20 mA

OUTPUT RIPPLE (Peak-to-Peak) <0.1% of span

ISOLATION

Breakdown Voltage >600 VAC rms

Resistance >500 megohms

MAX LOAD RESISTANCE = [(Vsupply - 12)/I out mA] kilohms

RESPONSE TIME 700 ms typical

ACCURACY

 $\pm 0.05\%$ of span

LINEARITY

±0.01% of span

COMMON MODE REJECTION 120 dB, DC to 60 Hz OPERATINGTEMPERATURE -40°F to 185°F / -40°C to 85°C

TEMPERATURE STABILITY

±0.01% of span / °C max

POWER REQUIRED 12 to 48 VDC, polarity protected

SUPPLY VOLTAGE EFFECT 0.01% of span max

- * Within Specified Range Limits.
- ** For input values greater than 1A rms select appropriate external shunt resistor and use with 0-500 mV rms input.

TW8201

ORDERING **INFORMATION**

INPUT

Select Units □VAC □mAAC □ AAC Enter Input Zero Scale

Full Scale

OPTIONS

Conformal Coating

TAGS

Specify Tag Numbers

Tag number is typed on product label at no charge.

Enter Tag Number(s)

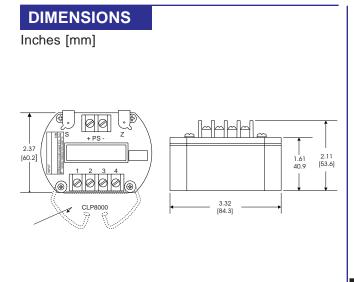
ACCESSORIES

TW8201

DR1

DMP8500 Mounting Plate, DIN-Rail & Surface (SC5000 & TW8000) **HKB-HFC** Killark Explosion-Proof Housing, no Window (TW8000) Killark Explosion-Proof Housing with Window (TW8000) **HKB-HKGL** DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter)

QTY	
QTY .	
QTY	
OTY	



CONNECTIONS

PIN PS +	Power Supply +
PIN PS -	Power Supply -
PIN 1	Input
PIN 2	Input
PIN 3	No Connection
PIN 4	Shield



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