

V440 SERIES BRIDGE TRANSDUCER INDICATORS

Digitron's V440 Series transducer indicators are designed for use with any 3 terminal transducer which requires a nominal +24V dc excitation voltage and gives out a signal in the range 1-6, 1-11, 0-5 or 0-10 volts dc. For example, the TransInstruments 2000 type C, D, F, G pressure transducers.

V440 features include:

- Large LED display
- Controller model
- Supplied with 20 different engineering units*

V440 benefits include:

- Easy to use
- Highly accurate performance
- Superb value
- Compact design

Use the V440 Series to power any 3 terminal sensor requiring a nominal +24V dc excitation, giving out a voltage signal in the range 0-11V dc. The easily adjustable zero and full scale functions make the display of any process variable simple. The compact size and integral sensor excitation voltage allow the unit to be fitted in almost any installation.

• Two models are available: Model V445 indicator, and model V448 indicator with single set point each with 2 ranges, 0-6V or 0-11V.

Both models incorporate a decimal point position selection and continuous scaling of gain, from full scale ≥ 250 to ≤ 1999 , using selector switch and gain adjustment control. 0 or 1V dc 'zero' inputs are selectable, with further offset adjustment for sensor calibration.

Both instruments give out a nominal excitation voltage of +24V dc for sensor excitation.

• Reliable

They are subjected to detailed inspection and a rigorous testing programme before being calibrated on equipment traceable to National Standards. Both models are also supplied with a 12 month warranty on parts and labour.

• Applications

As these instruments can power and read any 24V dc rated 3 terminal transducer with a dc voltage output, their applications are numerous. The V440s are therefore ideal for use in monitoring:

- Amps/Volts/Power
- Displacement
- Flow
- Frequency
- pH
- Pressure
- Speed
- Strain
- Temperature

• Complementary Ranges

There are various ranges to complement the V440 Series including the:

- A440 Series current loop indicators, designed for use with any current loop sensor which gives out a dc current in the range 4-20mA.
- 4000 Series slimline panel thermometers, giving a wide choice of thermocouple and platinum resistance inputs for temperature ranges between -100°C and +700°C.
- P440 Series pressure indicators, for use with pressure transducers with up to 100mV full scale output and other 4 terminal bridge transducers.

* The V440 is supplied with a set of standard engineering units for customer use. The appropriate symbol should be fixed to the front panel.

V440 SERIES SPECIFICATION

Input	0-5, 1-6V dc pre-set by manufacturer or 0-10, 1-11V dc (please specify)
Transducer/Excitation Voltage	24V dc nominal
Display	3 1/2 digit, 13.5mm LED
Range - Full Scale	Adjustable from .250 to 1999
Decimal Point Position	Selectable using jumper link
Indicator Accuracy	• Linearity ± 1 digit • Stability typically 100ppm/°C
Power Supply	230/115V ac $\pm 15\%$ (selectable), 50/60 Hz
Zero Offset Control	Adjustable pots and switches access from behind front panel
Operational Temperature Range	0-40°C
Dimensions	96 x 48 x 68.1mm (After DIN 43700)
Cut Out	92 x 45mm + 1.0mm - 0.0mm
Changeover Relay (Model V448 only)	Heavy duty Silver Cadmium Oxide 5 amps resistive load @ 240V ac
Setpoint Hysteresis (Model V448 only)	Adjustable pot (± 1 count up to ± 10 counts), access through vents on right hand side of case

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SIFAM

COMPONENTS DIVISION
SIFAM LIMITED
WOODLAND ROAD TORQUAY DEVON
TQ2 7AY ENGLAND
TEL: 01803 407733 FAX: 01803 407740
Sifam_ComponentsUK@compuserve.com
www.sifam.com

SIFAM - The pressure and measurement technology group

V440.001. A.5.2/93