Bitronics® DC Family

Digital DC Meters

Transducer Display
Single Channel
Model THTIE1

Transducer Display
Dual Channel
Model TDTIE1

Functional Description

The transducer display provides a local display of a parameter measured by an analog power transducer. The display operates from either 0-1mA dc or 4-20mA dc input. The Single Channel Transducer Display is for one parameter with one input. The Dual Channel Transducer Display is for two parameters from two separate inputs.

The display presents a low burden to current loops so they can be placed in series with SCADA/EMS transducers.

The display is easily scaled to read in primary units and the faceplate legend is selected from a large library.

Optional hold function "freezes" the display which is helpful when transcribing data from multiple instruments simultaneously.

The displays provide a complement to the Bitronics AC meters by offering: high accuracy, easily read LED displays, standard mount in 4-inch round cutout and modular construction. It is built with the same concern for harsh electrical conditions common in AC switchboard environments as other Bitronics meters.

Features

- Displays primary value measured parameters from an analog transducer output
- Optional hold function "freezes" the display
- Low burden
- Bright large LED designs
- Fits 4-inch round cutout

Specifications

- **Input Signal:** 0 to ±1mA dc, or 4-20mA dc
- **Scaling:** Two potentiometers per input
- **Accuracy:** ±0.1% of full scale
- **Burden (Input Signal):** 1.0KΩ (0-1mA), 220KΩ (4-20mA)
- **Auxiliary Power Supply:** 115V ac or 230V ac
- **Single Channel Transducer Display:** One 4½-digit, 0.5" high red LEDs
- **Dual Channel Transducer Display:** Two 4½-digit, 0.5" high red LEDs
- **Mechanical:** Four inch round, 5.7" max depth metal case with 4.5" square faceplate

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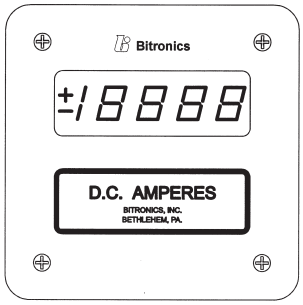
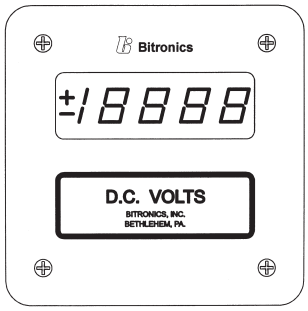
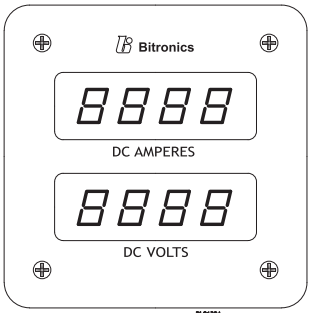


Ammeter, DC
Model ASDIE2



Voltmeter, DC
Model VSDIE2



Amp/Volt Meter, DC
Model GSDIE2

Functional Description

The DC meters measure and display DC current and DC voltage. The DC Voltmeter is connected directly to a 200V dc source. A 300V dc source option can be ordered. The DC Ammeter reads the voltage drop across a 150mV shunt in the current circuit. A 50mV shunt option can be ordered. The shunt is not provided.

The Amp/Volt meter contains both a DC Ammeter and a DC Voltmeter combined in one instrument.

Typically these instruments are used for station battery monitoring and generator field excitation monitoring.

The display presents high impedance and therefore a low burden to the signals being measured.

An internal trim potentiometer is available inside the faceplate.

The displays provide a complement to the Bitronics AC meters by offering: high accuracy, easily read LED displays, standard mount in 4-inch round cutout and modular construction. It is built with the same concern for harsh electrical conditions common in AC switchboard environments as other Bitronics meters.

Features

- DC Amp/Volt Meter saves space
- Low burden
- Bright large LED designs
- Fits 4-inch round cutout

Specifications

- **Current Input Signal**: External Shunt required, 0 to ±150mV dc, optional 0 to ±50mV dc, burden > 1MΩ
- **Scaling**: One trim pot per input signal
- **Accuracy**: Better than ±0.25% of full scale
- **Auxiliary Power Supply**: 115V ac or 230V ac
- **DC Ammeter or Voltmeter Display**: One 4½-digit, 0.5" high red LEDs
- **DC Amp/Volt Meter Display**: Two 4½-digit, 0.5" high red LEDs
- **Mechanical** : Four inch round, 5.7" max depth metal case with 4.5" square faceplate

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