

# 2800 SERIES



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3½, 4, and 4½-Digit Resolution  
Digital Panel Meter



## STANDARD FEATURES

- Fully prompted setup and data entry through front panel keypad
- Automatic storage of max/min measurement data
- Dual high/low setpoints with user-programmable hysteresis
- SelfCal™ insures accuracy by sampling a precision internal reference every four seconds
- Set-up data permanently stored in non-volatile memory
- Lockout code for added security
- High-intensity 0.5" blue-green vacuum fluorescent display
- NEMA 12 sealed front panel
- Compact 1/8 DIN case, 45mm x 92mm cutout
- Input/Output connectors supplied
- Dimensions: 2"H x 3.83"W x 5.36"D (50.8 x 97.3 x 136.1mm)

## FIELD-INSTALLABLE OPTIONS

- Tri-state parallel BCD output
- Isolated analog output, 0-10 VDC and 4-20mA
- RS232C/20mA serial data output
- Transducer excitation, 10 and 24 VDC
- Red-orange display characters
- Dual 5 amp form C alarm relays
- Dual open collector outputs
- Screw terminal connectors
- NEMA 4X molded front cover

## FACTORY INSTALLED OPTIONS:

- Digital scale and offset
- DC powered from 9 to 30V
- Three point linearization

## IQ280A APPLICATIONS INCLUDE:

- Pressure Transducer Display and Control
- Stress Testing
- Weighing
- Temperature Control
- Chemical Process Control
- Test Panels for Voltage and Current Monitoring
- Monitor and Control in Pulp and Paper Monitoring
- Steel Manufacturing Processes
- Remote Indication

## MODELS AVAILABLE

### DC VOLTAGE/CURRENT METERS

#### 2810A Series - 3½, 4, and 4½-Digit

Wide variety of voltage or current inputs with full scale ranges of 100mV to 1000V and 200mA to 2A. Keypad decimal placement. Optional digital scaling allows for displaying in engineering units. Three display ranges available:

MODEL	DIGITS	COUNTS	ACCURACY (± ½ DIGIT)
2810A	3½	±1999	0.05%
2811A	4	±9999	0.025%
2812A	4½	±19999	0.015%

### PROCESS VARIABLE MONITORS

#### Model 2820A - 4-Digit

Front keypad scale and offset conveniently converts process signal input into any desired engineering unit. Decimal position is also keypad selectable. Input scaling range is selectable over the full display range; the scale factor range is from .0001 to 3.2. Four digit display (±9999 counts) provides accuracy of 0.025% ±½ digit.

### THERMOCOUPLE TEMPERATURE

#### 2830A Series

Accepts direct input from Type J, K, E, T or S thermocouples via rear panel screw terminal connectors. Front key selectable °F or °C readout. Accuracy at 25°C: Model 2830A (1 degree resolution) is ±1°C ± least significant digit. Model 2831A (1 degree resolution) is ± 0.8°C ± least significant digit.

### STRAIN GAUGE/LOAD CELL METERS

#### Model 2840A (4-Digit) / 2841A (4½-Digit)

Accepts direct input from any full bridge transducer with outputs from 30mV to 30mV. User selectable balance and span via front keypad. Front panel MAX and TARE functions. Isolated, adjustable 9 -11 VDC excitation and 90mA drive. Screw terminal connectors are standard. Accuracy is 0.025% ± ½ digit.

### AC TRUE RMS VOLTAGE/CURRENT

#### 2850A Series

#### 3½, 4 and 4½-Digit

Full scale ranges of 100mV to 600V and 200mA to 5A. The 5A units will take inputs direct from current transformers.

MODEL	DIGITS	COUNTS	ACCURACY (± ½ DIGIT)
2850A	3½	1999	0.3%
2851A	4	9999	0.2%
2852A	4½	19999	0.1%

### RTD TEMPERATURE

#### 2860A Series

Accurate readings from 2, 3, or 4-wire 100 ohm platinum RTD's. User-selectable °F or °C. Accuracy (± ° digit): Model 2860A (1° resolution) is ±1°F or C, Model 2861A (0.1° resolution) is ±0.5°F and ±0.3°C, Model 2862A (0.01° resolution) is ±0.24°F and ±0.15°C. Includes a unique probe calibration feature which adjusts all readings for any sensor error noted at 0°C.

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