INTELLIGENT MONITORS AND CONTROLLERS

IQ-400A

Ruggedly built, highly accurate panel monitors are well suited to a wide variety of testing, manufacturing and processing applications. Standard features include:

- Prompted front panel keypad entry of setup data.
- Displays measurement readings, averages, min/max readings, totals and other data at the touch of a key.
- Exceptional accuracy of .005% ±1 digit.
- Four user-selectable high and low limits, all with adjustable hysteresis. Each limit can be programmed to activate one of two internal, isolated open collector transistor outputs for ON-OFF control of alarms, switches, etc.
- SelfCal™ autocalibration eliminates need for periodic recalibration.
- Bright, vacuum fluorescent display with nine alphanumeric characters. Four characters available for assignment as display labels.
- Rugged metal case designed to DIN panel mount specifications.
- Oil-tight, drip proof NEMA 12 sealed front panel, 68mm x 158mm cutout.
- Industrial circuit design – true differential input circuits are isolated, floated.
- Options include analog or serial data output, adjustable 5 to 15VDC transducer excitation (standard on Strain Gage/Load Cell models), two additional open collector outputs, and external relay pack with four 10A relays.
- Dimensions: 2.84" (72mm) H x 5.67" (144mm) W x 9.9" (251mm) D

FIVE MODELS AVAILABLE

Strain Gage/Load Cell Monitors

4040A series – 4 and 5 Digit

Reads directly from full bridge transducers in a wide input range of -30mV to +500mV with up to 1μV resolution. Automatically calculates totals, gross and net values. Front panel programmable balance and span permits display of input engineering units. Excitation supply is adjustable from 5 to 15 VDC (10 VDC at 114mA). Transducers can be remotely calibrated to a certified load or by entering actual mV/V rating. Ratiometric measurement for 4- or 6-wire plus shield configuration.

Model 4040A: 4 digit resolution,

Model 4041A: 5 digit resolution.



Strain Gage/Load Cell Monitors with Instant Peak Capture

Model 4050A – 4 Digit

Ideal for stress testing and other applications requiring fast and accurate capture of peak readings. Detects and records transients as brief as 100μ seconds, (10,000 readings per second). Two measurement modes: continuous or peak since last reset. With optional serial data output, transmission interval is user-adjustable from two to 99 seconds. User-selectable five-digit ID can accompany each serial data transmission. All other features and options are the same as Model 4040A.

Process Variable Monitors

4030A – 4 and 5 Digit

Accepts direct input of voltage or current process signals. Front panel scale and offset automatically converts input to engineering units. Keypad is also used to select display labels and to position the decimal point. Input ranges of 0 to 500 VDC and 0 to 50mADC. Model 4030A: 4 digits, 5,000 count resolution. Model 4031A: 5 digits, 50,000 counts.

Applications Include

- Material Weighing
- Strain Gage Monitoring
- Fuel Level Monitoring
- Force Measurement
- Pressure Testing