

# Digital Pressure Indicator

## Model GT434



### UNIVERSAL PRESSURE INDICATOR

The Gentran model GT434 digital indicator/power supply is designed for use with any four leg, 350 ohm Wheatstone bridge pressure transducer. Zero and span can be easily adjusted without removing the module. Shunt calibration is a standard feature.

### EASY TO READ LED DISPLAY

The large 4½ digit, 1/3 inch LED display is easy to read, even from a distance. Custom face plates are not required for specific scales because every unit can be set for 12 different ranges. Other markings can be easily added for engineering units. The last digit is a fixed zero.

### DUAL ALARM SETPOINTS

Two alarms can be selected for above or below setpoint control. Relays provide N.O. (normally open) and N.C. (normally closed) contacts for maximum flexibility. Adjustments are made through pots on the faceplate.

### VERSATILE

The GT434 provides a choice of recorder outputs, damping constant, transducer sensitivities, input power, shunt-resistor calibrations, peak-hold, and reset options.

### EASY INSTALLATION

The easy-to-mount aluminum housing fits a 1/4 DIN cutout. Slide-type metal brackets hold the case firmly in place and can be installed quickly. The electronic module can be easily removed for option selection or service.

# Ordering Information

## TYPICAL PART NUMBER

GT434 D -10 AB 8 -10K																						
Series GT434 ANALOG PRESSURE INDICATOR	ALARM SETPOINTS		RECORDER OUTPUTS		CONTROL SEQUENCE		SHUNT CALIBRATION		PRESSURE * RANGE													
	None	No setpoints	-1	0-1 VDC	None	None	4	Gentran (200 Kohm)	5C	0-500												
			D	Dual Setpoints					-2	0-2 VDC	AA	Control I above Control II above	7	Gentran (54.9 Kohm)	1K	0-1,000						
									-5	0-5 VDC					AB	Control I above Control II below	8	Gentran (30.1 Kohm)	3K	0-3,000		
									-6	4-20 mA									9	Dynisco (External)	5K	0-5,000
									-10	0-10 VDC											10K	0-10,000
	D	Dual Setpoints	-10	0-10 VDC	BA	Control I below Control II above	9	Dynisco (External)	15K	0-15,000												
									BB	Control I below Control II below	9	Dynisco (External)	15K	0-15,000								

(Measurements PSIG)

\* Other ranges available upon request.

### THE GT434: DIGITAL PRESSURE INDICATOR

The Gentran model GT434 digital pressure indicator is a combination transducer power supply, indicator, and signal conditioner. It is housed in a 1/4 DIN standard-size case of extruded aluminum, which protects against EMI and RFI noise, heat dispersion, and physical damage. The large 4½ digit, 1/3 inch high LED display is easy to read, even from a distance.

The GT434 is designed for use with a Gentran pressure transducer or any 4 leg, 350 ohm Wheatstone bridge strain-gage transducer. A calibration pushbutton allows for a quick span check and adjustment when you adjust zero at zero pressure. The complete electronic assembly can be removed and/or replaced from the front without disturbing the wiring in back. Various options are furnished as standard, dip-switch selectable. These options include various recorder outputs, transducer input sensitivity, internal or external shunt calibration and automatic or manual alarm reset. In addition, the unit can be powered by 120 or 240 VAC.

The dual setpoint option can be used to give a preliminary warning before an actual shutdown sequence is initiated. You can program HI/HI, LO/LO, LO/HI, and HI/LO. The relays are isolated during a setpoint change or calibration check to prevent accidental emergency shutdown.



# Specifications: GT434

## PERFORMANCE CHARACTERISTICS

Standard Ranges:

- 0-500 psig
- 0-1,000 psig
- 0-1,500 psig
- 0-3,000 psig
- 0-5,000 psig
- 0-10,000 psig
- 0-15,000 psig

Special Ranges:

Other ranges available upon request.

Accuracy:  $\pm 0.1\%$  of full scale or one digit

Recorder Output-

- Accuracy:  $\pm 0.1\%$  of full scale
- Repeatability:  $\pm 0.1\%$  of full scale
- Linearity:  $\pm 0.1\%$  of full scale
- Stability:  $\pm 0.1\%$  of full scale or one digit

## PHYSICAL CHARACTERISTICS

Size: 1/4 DIN

Meter: 4½ digit LED, 1/3 inch height, last digit fixed zero and selectable decimal point

Operating Temperature: 0-140°F

Weight: 2.5 lbs.

## ELECTRICAL CHARACTERISTICS

Power: 106-125 or 200-250 VAC, 50/60 hz, 1/8 Amp maximum

Zero Adjustment:  $\pm 35\%$  with panel pot

Sensitivity Adjustment (Span): 1-2.5 mV/V or 2.5-5.0 mV/V, Switch selectable and fully adjustable.

Shunt Resistance Calibration: Selectable for Gentran or Dynisco

Response Time (Damping): Selectable at 0.3 or 5.0 seconds

Recorder Outputs-

Standard: 0-1 VDC, 0-2 VDC, 0-5 VDC & 0-10 VDC

Optional: 4-20 mA, Load from 15-600 ohms

Transducer Power Supply: 8.2 VDC  $\pm 5.0\%$

## CONTROL CHARACTERISTICS

Dual Relays: 2 SPDT (Single Pole Double Throw)

Relay Rating: 8 Amp @ 125/250 VAC, 5 Amp @ 30 VDC

Set Point Range: 1-100% of full scale

Accuracy:  $\pm 0.3\%$  of full scale

Hysteresis:  $\pm 0.5\%$  of full scale

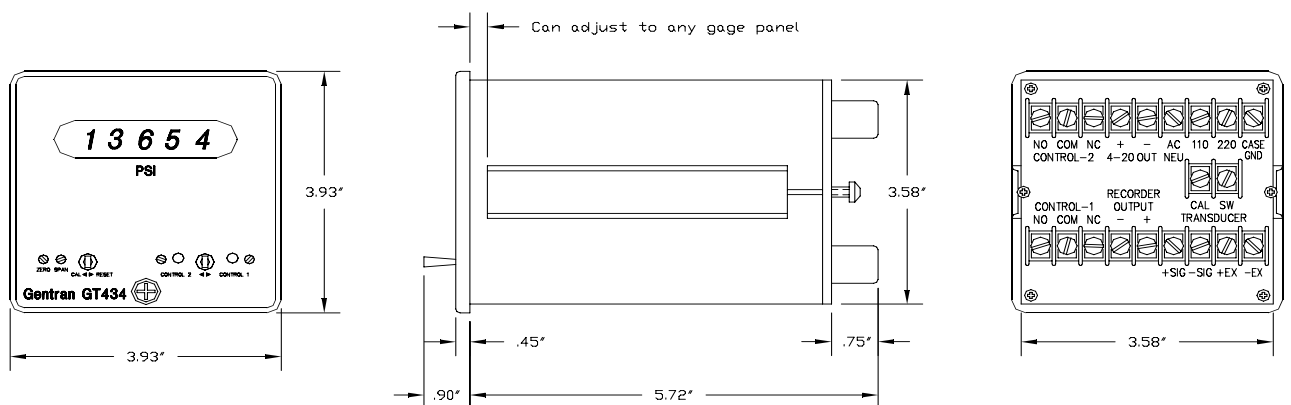
Indication: Front panel LED

Mode: Above or below set point

Reset: Automatic or manual

Peak Hold: Optional

## Dimensions



NOTES:

1 PANEL CUT OUT: 3 5/8" x 3 5/8"

