

256 Pneumatic Indicator

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The 256 pneumatic indicator is used to activate and read pneumatic piezometers, total pressure cells, and settlement cells.

The indicator employs top quality components and is constructed to withstand many years of hard use.

Overview of Operation

Before leaving for the site, check that the indicator's tank is charged with gas. The built-in tank holds more than 180 liters of gas (6.25 SCF), which is sufficient for busy reading schedules.

On site, set the pressure regulator. Proper regulation results in lower gas consumption and prevents damage to the pressure gauge.

Connect transducer tubing to the indicator using the included jumper tubing.

Turn on the gas to activate the transducer. Gas flows down through the tubing to the transducer.

Wait for the return-flow indicator to show a return flow of gas, then shut off the gas or use the precision flow-rate valve and flowmeter to slow the flow of gas.

Wait for the pressure reading on the main gauge to stabilize, then write down the reading. Take a second reading for verification, then disconnect and move to the next transducer.



256 Pneumatic Pressure Indicator with Digital Gauge



256 Indicator with Analog Gauge

Advantages

Choice of Pressure Gauges: Both digital and analog gauges are available. See the list of pressure gauges on the next page.

Precision Flowmeter: Use the precision flowmeter when reading with flow or when pressuring long lines.

High Quality Components: The 256 Indicator is built for hard and long use. It employs the best quality tube fittings, tubing, valves, gauges, and tank.

GAUGE SPECIFICATIONS

Accuracy	Range	Resolution
±0.25% Analog Gauge	30 psi	0.05 psi
	60 psi	0.1 psi
	100 psi	0.25 psi
	150 psi	0.5 psi
±0.05% Digital Gauge	200 psi	0.01 psi
	1400 kPa	0.01 kPa
	14 kg/cm ²	0.001 kg/cm ²
	13.8 bar	0.001 bar

Resolution of an analog gauge is one-half the smallest marked increment on the face plate of the gauge. Digital gauge provides a variety of preset metric and English units and can be programmed to display additional units.

INDICATOR SPECIFICATIONS

Pressure Gauge: 0.25% analog gauge or 0.05% digital gauge. Digital gauge uses a 9 volt battery.

Working Range: Determined by range of pressure gauge and by pressure regulator. Standard regulator outputs a maximum pressure of 1.24 MPa (180 psi).

Internal Tank: 1.38 liter (84 in³). Typical capacity is 180 liter (6.25 SCFH). Working pressure is 13.9 MPa (2015 psi). Recommended gas: dry nitrogen, 3 ppm H₂O maximum.

Precision Flowmeter: The flowmeter provides a repeatability of ±0.5% FS and is pressure rated for 1.7 MPa (250 psi). It is graduated in millimeters. When reading with flow, the recommended setting is a flowrate of 30 mm, which is equivalent to 0.1 SCFH or 47 cc/min.

Filler Hose: For filling tank from external nitrogen bottle. 2 m hose (7') with quick-connect fitting for indicator and screw-on fitting for external bottle.

Jumper Tubing: Connects indicator to terminal panel or to transducer tubing. 2 m jumper (7') with quick-connect fittings at each end. Twin-tube or triple-tube jumper is supplied, depending which options are ordered.

Weight: About 11 kg (24 lb) including full tank and jumper hose. Exact weight depends on selected options and pressure gauge.

Size: 508 x 457 x 178 mm (20 x 18 x 7").

256 INDICATOR

With 0.25% Analog Gauge51425601

With 0.05% Digital Gauge51425602

Twin-tube indicator includes pressure gauge, precision flowmeter, filler hose, twin-tube jumper, and manual. Please specify range and units for pressure gauge. Indicators shipped by air have empty tank.