

Transcat ProLine Digital Test Gauge

Features:

- Accuracy of $\pm 0.05\%$ of F. S.
- Temperature compensated accuracy over 0 to 50 °C
- 13 standard pressure ranges available
- Displays in 18 standard or 1 custom engineering unit
- Displays ambient temperature in °C or °F
- Large, back-lit, 5-1/2 digit display with 0.65" high digits and 20 segment bar graph
- Rugged stainless steel case meets NEMA 4/IP65
- MIN/MAX recall
- Adjustable TARE zeros large system offsets
- User-configurable sample rate maximizes measurement performance and battery life
- User-configurable damping smooths readings from pulsating/plant air sources
- Auto Shut-off for extended battery life
- Low battery indicator
- CSA intrinsically safe, Class 1, Div. 2 Groups A, B, C & D; ATEX approval pending; CE approved
- Available with optional 24 V external power input
- Rubber boot standard on all stand-alone bottom mount gauges

Description:

The ProLine Digital Pressure Test Gauge takes the concept of an analog Test Gauge, and brings it to a new level, as only ProLine Calibrators can do. The ProLine Digital Pressure Test Gauge combines the accuracy of digital technology with the simplicity of an analog gauge, and achieves performance, ease-of-use, and a feature set unmatched in the pressure measurement world.

Setup of the ProLine Digital Pressure Test Gauge is fast and straightforward, through a menu-driven display, with minimal text, and intuitive functions, that is simple enough to allow the gauge to be used anywhere in the world, without the need for multilingual displays. Ease-of use, performance, and features set the ProLine Digital Pressure Test Gauge apart, just as you've come to expect from Transcat!

Accuracy:

The ProLine Digital Pressure Test Gauge first and foremost, provides 0.05% of full scale readings of pressure in any one of eight (8) ranges. Readings may be displayed in any one of 18 standard engineering units, or, in custom units you define, to eliminate tedious conversion calculations.

Key Features:

The 5-1/2 digit, 0.65" high digital display and companion percent-of-range bar graph provide an easy to read display, even from a distance. A number of features provide additional ease of use. The reading sample rate can be user-adjusted to match the type of measurement required. A power saving mode allows the ProLine Digital Pressure Test Gauge to enter a "sleep" mode, where the display is frozen between readings, maximizing battery life to 2,000 hours.



A MIN/MAX function is provided which instantly recalls the minimum and maximum pressure readings that have been automatically stored by the ProLine Digital Pressure Test Gauge. An auto power shutoff feature may be enabled for a preset time interval to extend battery life.

Security:

Password-protected field calibration of the ProLine Digital Pressure Test Gauge may be initiated through the keypad. An RS232 port allows pressure reading data to be extracted directly from the gauge for off-line analysis. (Requires ProLine RS232 cable (P/N C232SJ).) In addition to a ZERO function that compensates for sensor drift, large residual system pressures can be nulled using the TARE adjustment. This adjustment, when combined with the ability to create custom engineering units for display, allows the ProLine Digital Pressure Test Gauge to be used in a variety of liquid level and volume measurements, easily reading units of interest, such as gallons in a tank, directly.

Damping:

Damping can be set to integrate readings to accommodate pulsating sources, such as plant air. An optional external 24 VDC power input is available for applications where the ProLine Digital Pressure Test Gauge will be permanently incorporated into a process line. A protective rubber boot is standard to help protect the ProLine Digital Pressure Test Gauge from damage when dropped.

The ProLine Digital Pressure Test Gauge is available in a self-contained calibration kit, including a hand pressure pump, and associated fittings.

Transcat ProLine Digital Test Gauge

Specifications (0 °C to +50 °C, unless otherwise noted)

Input Pressure Ranges

1 psi*/70 mBAR; 15 psi/1 BAR; 30 psi/2 BAR;
100 psi/7 BAR; 300 psi/20 BAR; 500 psi/30 BAR;
1,000 psi/70 BAR; 2,000 psi/140 BAR; 3,000 psi/200 BAR;
5,000 psi/300 BAR; 10,000 psi/700 BAR; -15 to +15 psi*;
-15 to +30 psi*

Accuracy

±0.05 % FS positive pressure
±0.1 % FS for 1.0 psi

Temperature Compensation

0 °C to +50 °C (32 °F to +122 °F) to rated accuracy

Standard Engineering Units

PSI, Bar, Kg/cm², inH₂O (4 °C, 20 °C or 60 °F),
ft H₂O (4 °C, 20 °C or 60 °F), cmH₂O (4 °C and 20 °C),
mH₂O (4 °C and 20 °C), Kpa, mBAR, inHg, mmHg, TORR

Media Compatibility

liquids and gases compatible with 316 stainless steel;
except for ranges marked * above

Environmental

Operating Temperature
-10 °C to +55 °C

Storage
-20 °C to +70 °C (-4 °F to +158 °F)

Mechanical

Dimensions
4.375" x 5.0" x 1.50"
Input Port
1/4" male NPT

Display

5-1/2 Digit, 0.65" (16.53 mm) height
Bar Graph – 0 to 100% in 20 segments

Power

Battery
three (3), size AA alkaline batteries
Battery Life
1,500 hours without backlight;
2,000 hours at slow sample rate;
battery life can be displayed on bar graph to
indicate the amount of time left
Low Battery Indicator
displayed icon near the end of battery life
Includes: manual, batteries

Mfg #	Description
95421PR	Digital Pressure Gauge w/ Boot, -15 to 15 pPSI, 0.05% Accuracy
95413PR	Digital Pressure Gauge w/ Boot, 15 PSI, 0.05% Accuracy
95414PR	Digital Pressure Gauge w/ Boot, 30 PSI, 0.05% Accuracy
95415PR	Digital Pressure Gauge w/ Boot, 100 PSI, 0.05% Accuracy
95416PR	Digital Pressure Gauge w/ Boot, 500 PSI, 0.05% Accuracy
95417PR	Digital Pressure Gauge w/ Boot, 1,000 PSI, 0.05% Accuracy
95418PR	Digital Pressure Gauge w/ Boot, 3,000 PSI, 0.05% Accuracy
95419PR	Digital Pressure Gauge w/ Boot, 5,000 PSI, 0.05% Accuracy
95420PR	Digital Pressure Gauge w/ Boot, 10,000 PSI, 0.05% Accuracy
1919428	Digital Pressure Gauge, 30 PSI, Standard Kit with Pnuenmatic Pump
1919430	Digital Pressure Gauge, 100 PSI, Standard Kit with Pnuenmatic Pump
1919431	Digital Pressure Gauge, 500 PSI, Standard Kit with Pnuenmatic Pump
1919433	Digital Pressure Gauge, 3,000 PSI, Standard Kit with Pnuenmatic Pump
1919444	Digital Pressure Gauge, 10,000 PSI, Standard Kit with Pnuenmatic Pump



TRANSCAT[®]
CALIBRATION SERVICES • TEST & MEASUREMENT INSTRUMENTS

Call: 800.828.1470 • Fax: 800.395.0543 • TRANSCAT.COM