TG630 - Digital Pressure Gauge

Product Datasheet

The Tekneka TG630 is a precision digital pressure gauge designed for industrial and laboratory environments where measurement accuracy and long-term reliability are non-negotiable. Built around a high-precision 316L stainless steel sensing diaphragm and backed by robust signal processing electronics, the TG630 delivers ±0.2% FS accuracy across pressure ranges from 10~1000 bar making it a dependable choice for calibration benches, hydraulic system commissioning, process monitoring, and field pressure verification. Compact, battery-powered, and straightforward to operate, it eliminates the drift and parallax errors associated with mechanical gauges while offering the flexibility of nine selectable engineering units on a large, backlit LCD display.

Features

- **High Accuracy:** ±0.2% FS reading which is more accurate & repeatability
- **Wide Pressure Range Selection:** Available in 10, 20, 100, 400, 700, and 1000 bar full-scale ranges to suit everything from pneumatic test benches to high-pressure hydraulic systems
- **9 Engineering Units:** MPa, bar, psi, kgf/cm², mmH₂O, mmHg, inH₂O, inHg, kPa - switchable on the fly without tools
- **4-Digit Large LCD Display** with white backlight for clear on-site reading in low-light environments
- **5 Hz Sampling Rate:** Captures fast-changing pressure events reliably
- **Battery Powered:** 2× AAA cells with up to 12 months operational life under normal use
- **Rugged Construction:** 304 SS housing, 316L wetted diaphragm - compatible with water, hydraulic oil, and most industrial gases
- **Multiple Process Connections:** M20×1.5, G½, NPT½, G¼, NPT¼ - fits standard manifolds and test points without adapters
- **Anti-EMI Design:** Stable performance near variable-frequency drives, motors, and switching equipment
- **Zero/Tare** Function & **Auto Power-Off** for field convenience

Application

The TG630 is used across a wide range of industries. In calibration labs and oil & gas facilities, it handles pressure verification, pipeline checks, and hydrostatic testing. Hydraulic and pneumatic engineers use it for circuit commissioning and leak detection, while water utilities rely on it for pump and pipe pressure surveys. It also serves HVAC technicians during refrigerant checks, automation engineers for process monitoring, and laboratory staff on pressure test rigs where accurate, repeatable readings matter most.

Specification

General Specification	
Pressure Range	10 bar / 20 bar / 100 bar / 400 bar / 700 bar / 1000 bar
Accuracy	±0.2% FS
Measuring Medium	Gases and liquids compatible with 316L SS (water, oil, air, N_2, etc.)
Nominal Size	80mm
Units	MPa, bar, psi, kgf/cm², mmH₂O, mmHg, inH₂O, inHg, kPa
End Connection	M20×1.5, G½, NPT½, G¼, NPT¼
Operating Temperature	-20 ~ 70 °C
Temperature Compensation	0 ~ 60 °C
Atmospheric Pressure	86 ~ 106 kPa
Overload Protection	150% FS (ranges < 10 MPa); 120% FS (ranges ≥ 10 MPa)
Material	316L stainless steel diaphragm
Housing Material	304 stainless steel
Power Supply	2× AAA alkaline batteries
EMC / Electrical	Anti-electromagnetic interference design

Gauge Selection		
P/N	**Bar**	**PSI**
GP10	10	140
GP20	20	290
GP100	100	1400
GP400	400	6000
GP700	700	10000

Ordering Info.

TG630-P/N-N.....Digital Pressure Gauge

P/N: GPxx Refer Gauge Selelction Table
End Connection: N - NPT½ | N2 - NPT¼ | G - G½ | G2 - G¼ | M - M20×1.5

Package Includes

- User Manual
- NPT½ Connector