

Elitech PG-30Pro

Elitech PG-30Pro Digital Pressure Gauge User Manual

Model: PG-30Pro

INTRODUCTION

The Elitech PG-30Pro Digital Pressure Gauge is designed for precise real-time pressure measurement in various systems, including pipeline and refrigeration applications. It features a clear backlight display, automatic shutdown, low battery indication, and an over-pressure warning light for enhanced safety and usability. Its robust design and long battery life make it a reliable tool for professionals.

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your PG-30Pro Digital Pressure Gauge. Please read it thoroughly before use.

PRODUCT FEATURES

- **Backlight Display:** Ensures clear visibility of readings in various lighting conditions.
- **Max/Min Value Display and Reset:** Records maximum and minimum pressure values, with an option to reset for new data collection.
- **Zeroing Function:** Allows for calibration to correct any deviation at the zero point.
- **Wide Refrigerant Compatibility:** Supports over 90 common refrigerants, making it versatile for various AC and refrigeration systems.
- **Auto Shut-Off Setting:** Conserves battery life by automatically turning off after a period of inactivity.
- **Adjustable Temperature and Pressure Units:** Users can select preferred units for both temperature and pressure measurements.
- **Low Battery Indicator:** Displays "LOB" when battery power is low.
- **Over-Pressure Warning:** Alerts the user to potentially damaging pressure levels.



Backlight Display



Max/Min Value
Display and Reset



Zeroing Function



Supports Over
90 Refrigerants



Auto Shut-Off Setting



Adjustable Temperature
and Pressure Units

Image: Elitech PG-30Pro Digital Pressure Gauge showcasing its main features including backlight, Max/Min display, zeroing function, refrigerant compatibility, auto shut-off, and adjustable units.

SETUP

1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Open the cover and insert three (3) AAA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

2. Connecting the Gauge

- The PG-30Pro is equipped with a standard 1/8-inch NPT fitting.
- Ensure the system you are connecting to is compatible with this fitting size.
- Carefully thread the gauge onto the system's pressure port. Do not overtighten.

- Verify a secure, leak-free connection before proceeding with measurements.



Image: The Elitech PG-30Pro Digital Pressure Gauge illustrating its 1/8-inch NPT fitting and overall dimensions for connection reference.

OPERATING INSTRUCTIONS

1. Power On/Off

Press the **POWER** button (usually marked with a circle and vertical line) to turn the device on. Press and hold the **POWER** button to turn it off.

2. Unit Selection

Press the **SET** button to cycle through available pressure units (MPa, kPa, bar, psi, kg/cm²) and temperature units (°C, °F). Select the desired units for your measurement.



Adjustable Temperature and Pressure Units

Temperature Unit: °C / °F

Pressure Unit:
psi, kg/cm², cmHg, bar, kPa,
Mpa, kg/cm²

Image: The Elitech PG-30Pro Digital Pressure Gauge showing its display with adjustable temperature and pressure units, such as psi and °C/°F.

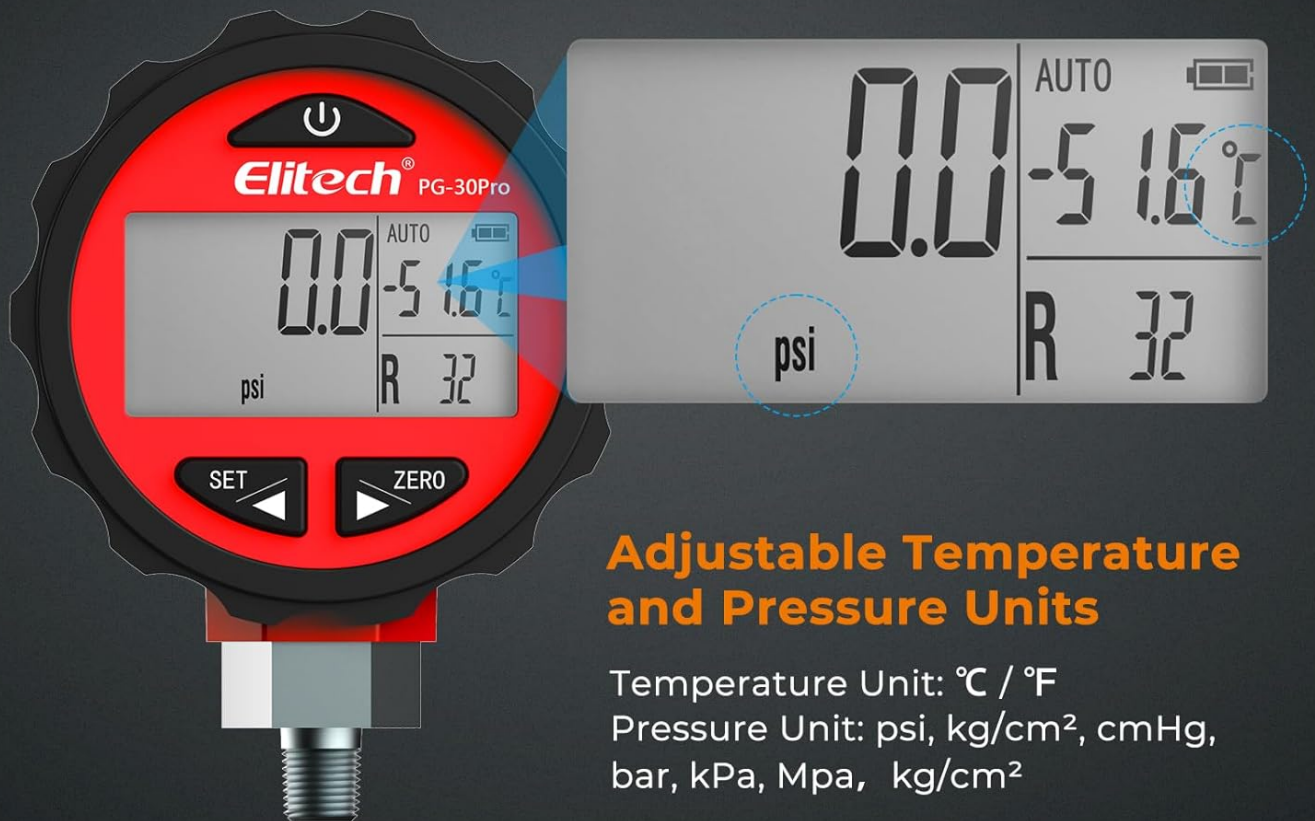


Image: A close-up of the Elitech PG-30Pro Digital Pressure Gauge's LCD display with its blue backlight activated, showing pressure and temperature readings.

3. Zeroing Function

Before taking a measurement, especially in a new environment or after a long period of storage, it is recommended to zero the gauge. With no pressure applied, press the **ZERO** button to reset the reading to zero. This corrects any potential deviation and ensures accurate measurements.

4. Max/Min Value Recording

The gauge automatically records the maximum and minimum pressure values during operation. To view these values, press the **SET** button repeatedly until "MAX" or "MIN" appears on the display. To clear these recorded values and start a new recording cycle, press and hold the **ZERO** button while viewing the MAX/MIN display.

Max/Min Value Display and Reset

Records maximum and minimum values,
with a reset option for data clearance.

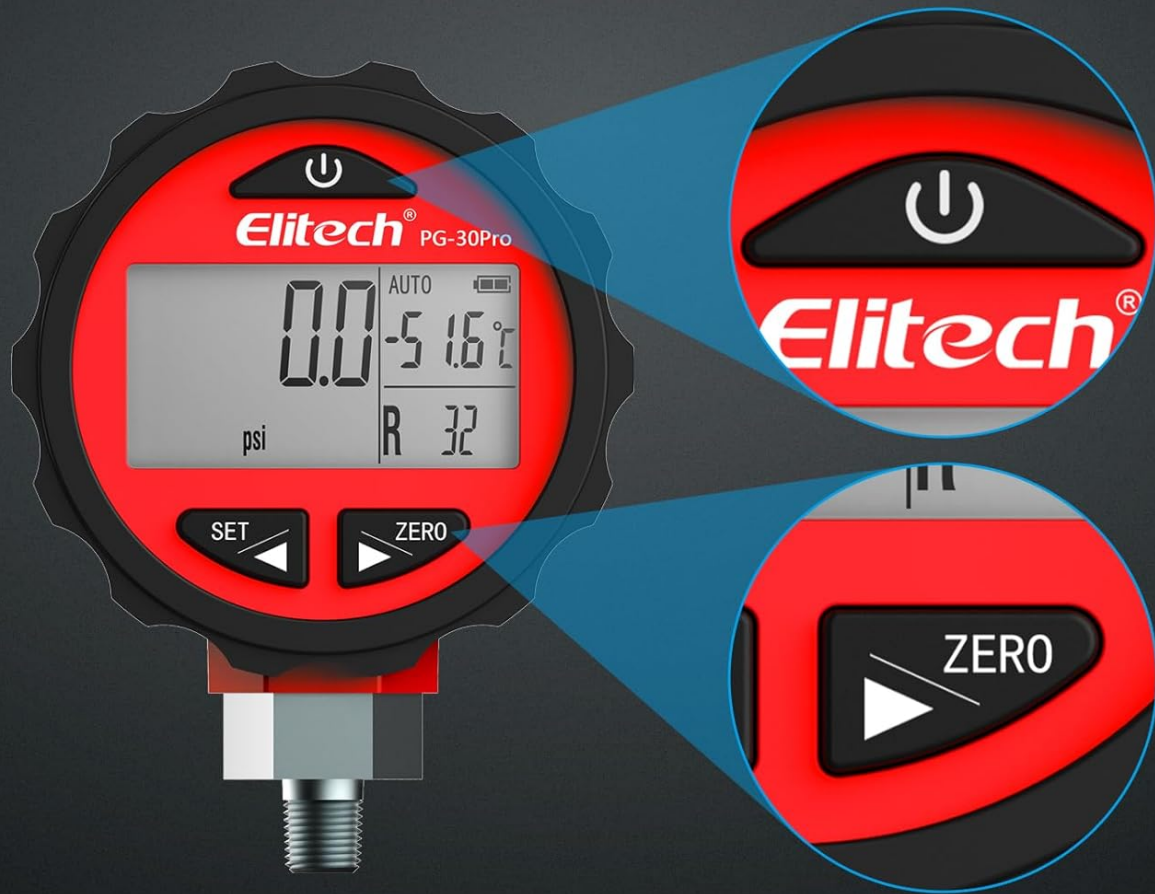


Image: The Elitech PG-30Pro Digital Pressure Gauge highlighting the Power and Zero buttons, used for Max/Min value display and reset.

5. Refrigerant Selection (PT Table)

The PG-30Pro has a built-in pressure-temperature (PT) comparison table for over 90 common refrigerants. This allows for convenient reference during HVAC and refrigeration system work. Consult the device's specific menu or accompanying documentation for how to access and utilize this feature.

Compatible with over 90 refrigerants, covering most commonly used options on the market! Ideal for a wide range of AC and refrigeration systems, making your job easier.



Image: The Elitech PG-30Pro Digital Pressure Gauge demonstrating its compatibility with a wide range of refrigerants, including R12, R22, R134a, R401A, and others.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the gauge in a dry, cool place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries when the "LOB" indicator appears on the display. Ensure to use three (3) new AAA batteries.
- **Inspection:** Regularly inspect the pressure port and fitting for any signs of damage or wear. Replace if necessary to ensure accurate and safe operation.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with new AAA batteries.
Inaccurate readings.	Gauge not zeroed; faulty connection; sensor issue.	Perform zeroing function. Check for leaks at the connection. If problem persists, contact support.
"LOB" displayed.	Low battery power.	Replace batteries immediately.
Display is dim or flickering.	Low battery power; environmental conditions.	Replace batteries. Ensure operating within specified temperature range.

SPECIFICATIONS

Parameter	Value
Model	PG-30Pro
Pressure Measurement Range	-0.100 to 5.515 MPa (0 to 800 psi)
Operating Temperature	10°C to 60°C (50°F to 140°F)
Operating Humidity	35% to 85% RH
Resolution	0.001 MPa, 0.1 psi
Accuracy	±0.5% FS (Full Scale)
Temperature Units	°C / °F
Battery Life	Up to 1 year
Power Supply	3 x AAA batteries
Sampling Period	1 second
Display	1.9 x 1 inch LCD with Blue Backlight
Measurement Units	MPa, kPa, bar, psi, kg/cm², cmHg
Fitting	1/8-inch NPT
Product Dimensions (L x W x H)	45 x 45 x 197 mm (1.77 x 1.77 x 7.76 inches)
Product Weight	248 g (8.78 oz)
Material	Plastic
Refrigerant Compatibility	Over 90 types



Automotive Air
Conditioning Maintenance



Residential AC
Installation and Repair



Cold Storage
Temperature Control



Commercial Refrigeration
System Inspection



Heat Pump System
Pressure Testing



Refrigerant Recovery
and Charging

Image: Examples of the Elitech PG-30Pro Digital Pressure Gauge in use across various applications, including automotive AC maintenance, residential AC installation, cold storage temperature control, commercial refrigeration inspection, heat pump system pressure testing, and refrigerant recovery and charging.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Elitech customer service. Refer to the product packaging or Elitech's official website for the most current contact details.

Website: www.elitech.com

Please have your product model (PG-30Pro) and purchase date available when contacting support.

