



# PZG700 Digital Pressure Gauge

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## Introduction

The PZG700 digital pressure gauge is integrated a silicon piezoresistive pressure sensor as its sensitive element which is applicable to the measurement of the gauge , absolute and differential pressure of gases, vapour and liquids. Due to its compact and rugged design, the gauge is suitable for many industries such as petroleum, chemical industry, power plant, water supply of town, hydrological exploration, etc. With various options of process connection, the pressure gauge can be fitted into almost all common systems.

The diaphragm and wetted part are made from stainless steel with a choice of internal O ring seals to ensure the gauge can be used to measure media compatible with stainless steel.

Its large LCD digital display in 18mm(0.71 " ) height makes it easy to read the pressure value and adjust zero by pushing only one button. The auto-off function will display the pressure readings for 1-15 minutes (optional) before the gauge automatically shuts off for prolonging battery life.

Every PZG700 is temperature compensated and calibrated and supplied with a traceable serial number and calibration certificate.

## Features

- Measuring range: -1,..., 1000bar ( G, A); 10,..., 20bar ( D )
- Pressure types: gauge, absolute and differential
- Accuracy up to 0.25%fs
- 4-digits LCD display
- 9V alkaline battery (excluded)
- Isolated construction to measure various media
- ABS and 1Cr18Ni9Ti stainless steel construction, 316L diaphragm
- Optional pressure connection

## Applications

- Petroleum industry
- Chemical industry
- Power plant
- Water supply of town
- Hydrological exploration
- Tank gauging

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# PZG700 Digital Pressure Gauge

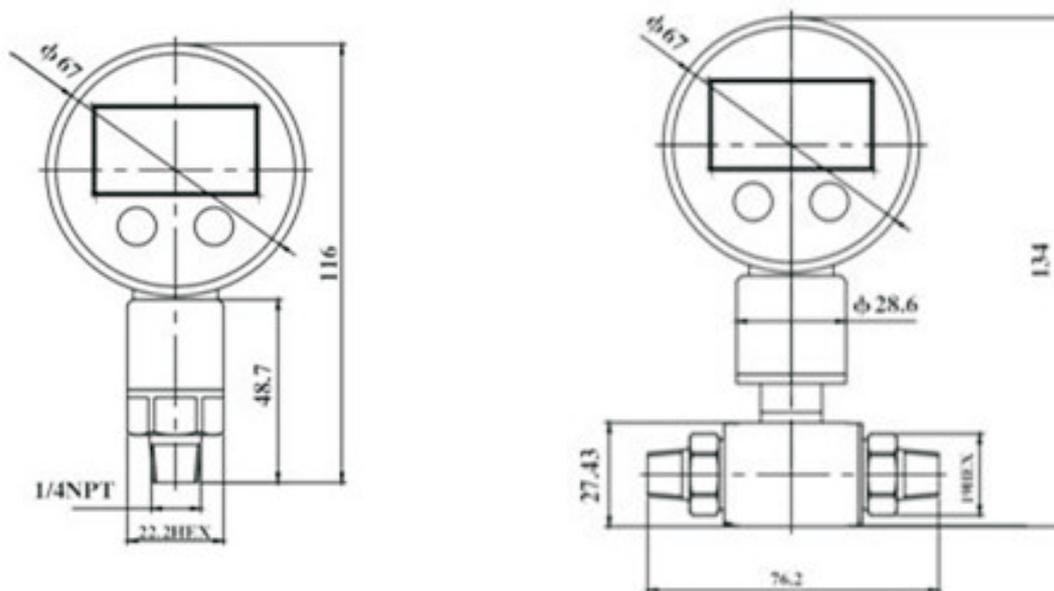
## Specifications

| Parameter                    | Units    | Data   | Notes |
|------------------------------|----------|--|-------|
| Pressure types and ranges    | bar      | Gauge(G) & Absolute(A) -1~0, 0~1, ..., ~1000                     |       |
|                              | bar      | Differential Pressure(D): 0~10, ..., ~20                         |       |
| Overload pressure            | /        | For G & A, 150%fs or 1100bar, whichever is less;                 | [1]   |
|                              | /        | For D, high & low pressure ≤500%fs or 40bar, whichever is less.  |       |
| Accuracy                     | %fs      | ≤ ±0.25  | [2]   |
| Long-term stability          | %fs/year | ≤ ±0.2   |       |
| Operating temperature range  | °C       | -1 ~ +49   |       |
| Power supply (U)             | Vdc      | 9V alkaline battery (excluded)                                   |       |
| Pressure diaphragm           | /        | 316L SS  |       |
| Electronics housing material | /        | ABS & stainless steel 1Cr18Ni9Ti                                 |       |
| Gauge diameter               | /        | 67mm   |       |
| Pressure connection          | /        | 1/4"- 18NPT male or other  |       |
| Filling oil                  | /        | silicone oil   |       |
| Media compatibility          | /        | Liquids and gases compatible with 1Cr18Ni9T/316L stainless steel |       |
| Environment protection       | /        | IP65   |       |

Notes: [1]. "fs" refers to full scale pressure or rated pressure.

[2]. Accuracy =  $\sqrt{\text{non-linearity}^2 + \text{hysteresis}^2 + \text{repeatability}^2}$

## Dimensions



Notes: - All dimensions are in mm.

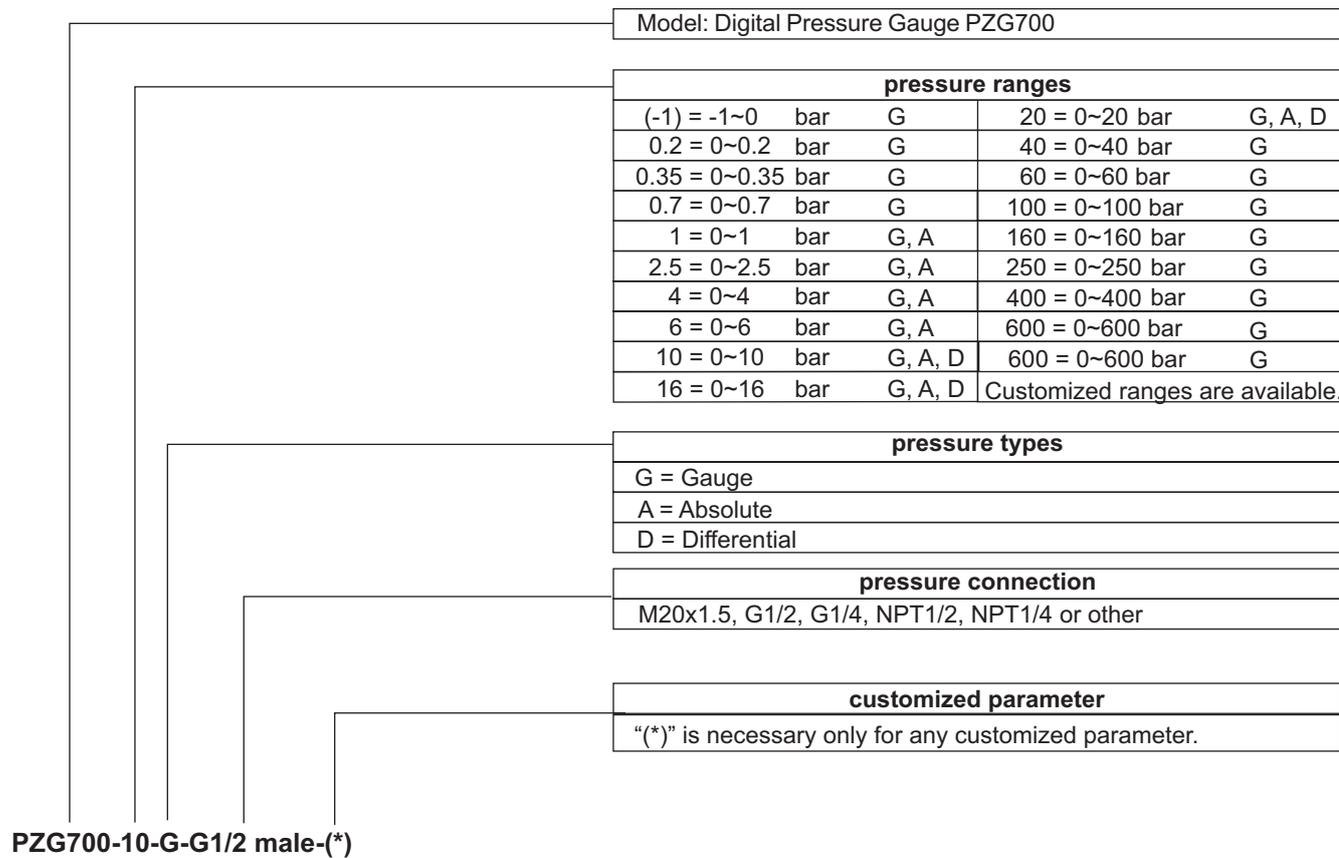
- If other types of connections are on request, please consult Proza.

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## Ordering Guide



## Order Note

1. The measured medium should be compatible with the product part of the contact medium.
2. For the differential pressure gauge, please pay attention to relationship between differential pressure range, overload and max pressure of high pressure and low pressure ports, and make sure meet needs of filed application. To ensure the measured medium go to the high and low pressure ports slowly, evenly and safely, propose to install a three valve between the measured point and gauge.
3. Special application requirements: such as strong shock, instantaneous impact, strong electromagnetic, radio frequency interference, please contact with PROZA and specify in your order.

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