

# Digital Wireless Pressure Transmitter

GaMicos

## GPT2451

### PRODUCT OVERVIEW

GPT2451 Smart Wireless Pressure Transmitter is a low power and wireless communication power consumption smart instrument. Relying on a mature 4G network, it can realize the wireless transmission of field instrument data to the cloud platform and mobile client. This product can set parameters such as pressure unit, range zero/range full scale, high/low alarm value, fluctuation threshold, upload time and other parameters through USB on the terminal, and can also remotely customize the collection frequency through the cloud platform, and view real-time data and history online Data allows customers to accurately and timely grasp on-site information.

The instrument adopts a large-capacity lithium battery to provide a stable and reliable power supply , allowing it to operate safely for more than 6 years (uploading once per hour). The self-developed low-power consumption system can not only provide users with on-site data through the LCD screen, but also upload data through the wireless module, and even graft the data to the user's own cloud platform. The powerful control algorithm makes the instrument have signal breakpoint continuity Transmission, automatic switching of working modes, real-time alarms for pressure fluctuations, one-key wake-up and other practical functions



### PRODUCT FEATURES

- 4G network is suitable for wide range of areas, and there is signal coverage
- LCD real-time display with backlight :
- Automatically adjust the time when connected to the network, and reconnect when the network is disconnected
- Remote setting of collection interval and sending interval;
- Upper and lower threshold alarm function, remote setting of threshold;
- PC and mobile data application :
- IP67 protection grade, moisture-proof, suitable for outdoor environment;

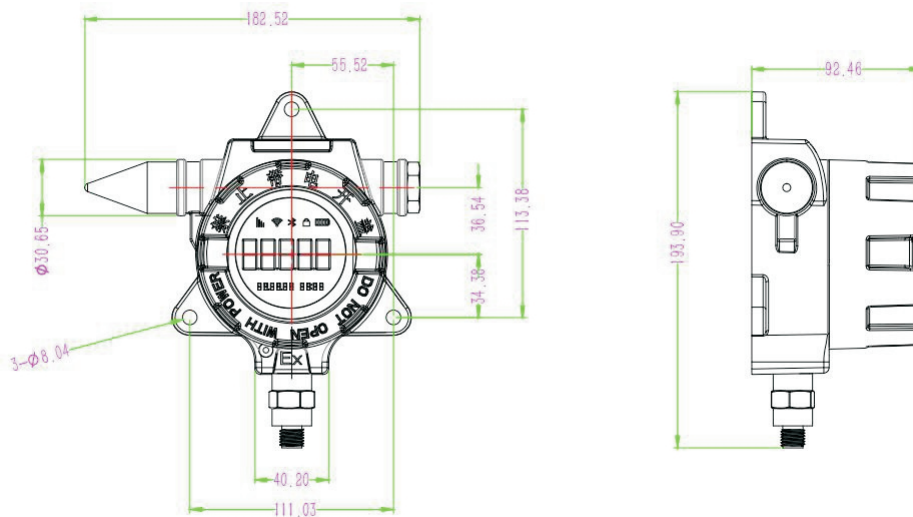
### APPLICATION

Based on broad coverage of the 4G public network, the product can detect various monitoring point real-time data in a large area, such as coal mine wells, water pipe network pressure, fire pipe network, etc. The product application fields mainly include petroleum, coal, tap water, automation control, etc.

## TECHNICAL PARAMETERS

|                            |                                                                                 |
|----------------------------|---------------------------------------------------------------------------------|
| Range                      | -100kpa~0kPa~20kPa...100MPa                                                     |
| Power supply               | Battery powered (3.6V,19AH)                                                     |
| Battery service life       | 6 years for once data per hour                                                  |
| Data transmission interval | Available time 2min-1440min                                                     |
| interval                   | Note : The shorter the data transmission interval, the shorter the battery life |
| Power consumption          | Stand-by current $\leq 80\mu A$ · Average data sending current $\leq 150mA$     |
| Accuracy                   | $\pm 0.5\%FS$                                                                   |
| Network                    | NB-IOT, 4G optional                                                             |
| Configuration method       | USB configuration operation, server remote configuration                        |
| Display                    | Segment LCD screen                                                              |
| Temperature influence      | 0.015%FS/°C                                                                     |
| Working temperature        | -30°C~70°C                                                                      |
| Wake up method             | Buttons, timing                                                                 |
| Relative humidity          | 0%~95%                                                                          |
| Sensor material            | Sensor diaphragm 316L · shell material: stainless steel                         |
| Overload pressure          | 1.5 times rated pressure                                                        |
| Protection grade           | IP67                                                                            |

## DIMENSION



## ORDERING GUIDE

|               |                      |                             |                       |               |                        |                                   |                       |                               |
|---------------|----------------------|-----------------------------|-----------------------|---------------|------------------------|-----------------------------------|-----------------------|-------------------------------|
| GPT2451       | Pressure transmitter |                             |                       |               |                        |                                   |                       |                               |
|               | Code                 | Range                       |                       |               |                        |                                   |                       |                               |
|               | 0/X                  | -100kPa~0kPa~20kPa...100MPa |                       |               |                        |                                   |                       |                               |
|               |                      | Code                        | Pressure type         |               |                        |                                   |                       |                               |
|               |                      | G                           | Gauge                 |               |                        |                                   |                       |                               |
|               |                      | S                           | Sealed gauge pressure |               |                        |                                   |                       |                               |
|               |                      | A                           | Absolute pressure     |               |                        |                                   |                       |                               |
|               |                      |                             | Code                  | Wireless type |                        |                                   |                       |                               |
|               |                      |                             | N                     | NB-IOT        |                        |                                   |                       |                               |
|               |                      |                             | G                     | 4G            |                        |                                   |                       |                               |
|               |                      |                             |                       | Code          | Power supply type      |                                   |                       |                               |
|               |                      |                             |                       | B             | Built-in battery power |                                   |                       |                               |
|               |                      |                             |                       | D             | External power supply  |                                   |                       |                               |
|               |                      |                             |                       |               | Code                   | Pressure connection               |                       |                               |
|               |                      |                             |                       |               | C1                     | M20×1.5 external thread interface |                       |                               |
|               |                      |                             |                       |               | C2                     | G1/2 external thread interface    |                       |                               |
|               |                      |                             |                       |               | C3                     | Others                            |                       |                               |
|               |                      |                             |                       |               |                        | Code                              | Software service type |                               |
|               |                      |                             |                       |               |                        | B1                                | Big data platform     |                               |
|               |                      |                             |                       |               |                        |                                   | Code                  | Additional features           |
|               |                      |                             |                       |               |                        |                                   | C1                    | With SIM card (Domestic only) |
|               |                      |                             |                       |               |                        |                                   | C2                    | Without SIM card              |
| GPT24510/1MPa | A                    | N                           | B                     | C3            | B1                     | C1                                |                       |                               |