

Smart Wireless Pressure Transmitter

GP100



LoRa™ LPWAN 4G NB-IOT



RoHS

Application

- Pipeline pressure monitoring
- Liquid/Gas vessel pressure monitoring
- Level monitoring of vessels, pond, river and lake
- Suitable for water, power, petroleum, and mining industry, etc.

Key Features

- Wireless: LoRaWAN/LPWAN/4G/NB-IOT
- Frequency: 433/470/864/865/868/915/920/923MHZ
- Network range: 5km
- Measurement: Diffused silicon
- Pressure type: Absolute pressure/Gauge pressure/Differential Pressure
- Pressure range: -0.1Kpa~+150Mpa
- Process connection: M20*1.5 or 1/2NPT
- Power: Disposable lithium battery 3.6V
- Battery life: 5-year
- Protection level: IP65
- Explosion proof: EX- ia II BT4

Design and specification

High precision diffused silicon core



Wild range of wireless protocol available

- LoRaWAN Standard protocol
- LoRa private protocol
- LPWAN private protocol
- 4G@LTE/NB-IOT

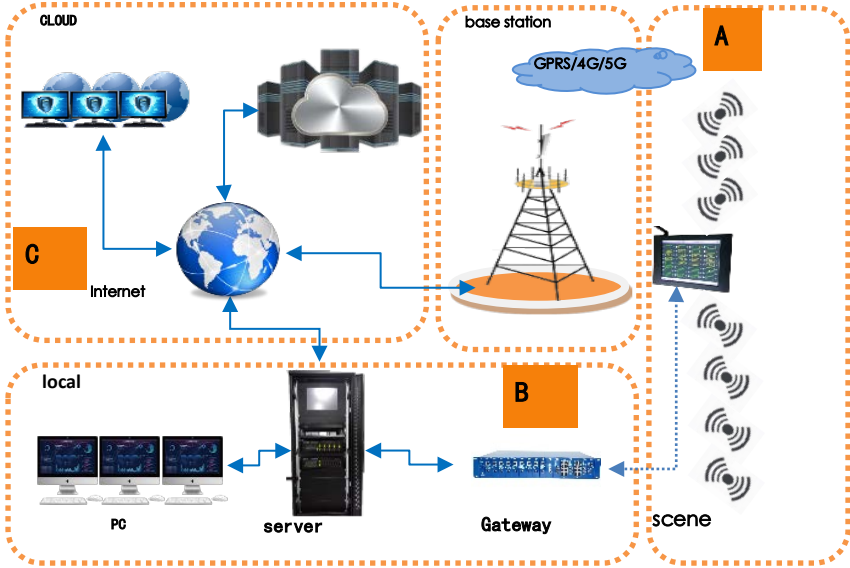
Ultra-low power design

- Low power integrated circuit
- Low power computing algorithm
- $\leq 20\text{mw}$

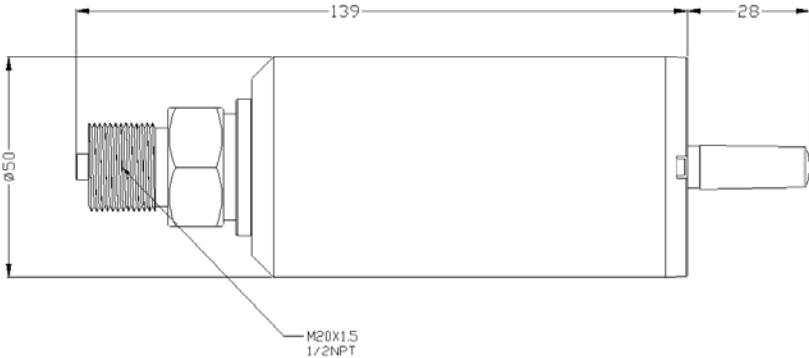
Specification

Description	Integrated	Remote	Differential pressure
Pressure range	-0.1~150Mpa	-0.1~150Mpa	$\pm 100\text{Kpa}$
Accuracy	0.25%&0.5%FS	0.25%&0.5%FS	0.25%&0.5%FS
Sampling period	2~100S(SET)	2~100S(SET)	2~100S(SET)
Wireless protocol	LORA/LPWAN	LORA/LPWAN	LORA/LPWAN
Power consumption	$\leq 20\text{mw}$	$\leq 20\text{mw}$	$\leq 20\text{mw}$
Power supply	3.6V Battery	3.6V Battery	3.6V Battery
Battery life	5 years	5 years	5 years
Network range	>1000m(Vis)	>1000m(Vis)	>1000m(Vis)
	>50m(wall)	>50m(wall)	>50m(wall)
Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Humidity	$\leq 97\%RH$	$\leq 97\%RH$	$\leq 97\%RH$
Install	M20*1.5 or 1/2NPT	M20*1.5 or 1/2NPT	M20*1.5 or 1/2NPT
Dimension	$\varnothing 50*100\text{mm}$	$\varnothing 50*100\text{mm}$	$\varnothing 50*100\text{mm}$
IP rate	IP65 EXiallbt4	IP65 EXiallbt4	IP65 EXiallbt4

Network System



Installation dimension



Order structure

GP100	-	AAAAA	BBB	C
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Model
GP100-

AAAA	Measurement type
G	Gauge Pressure
A	Absolute Pressure
D	Differential Pressure
B	Transmitter type
1	Integrated
2	Remote
C	Wireless communication
0	LoraWAN
1	4G
2	NB-IOT
3	LPWAN