

## DR3464 Wireless Pressure Transmitter -LoRaWAN



**Fandei Electronics Co.,Ltd.**

[www.fandesensor.com](http://www.fandesensor.com)

[info@fandesensor.com](mailto:info@fandesensor.com)

## 1 Introduction

DR3464 is an intelligent wireless pressure transmitter based on LoRaWAN protocol, which enable LoRaWAN transmission of measurement data. As a node, It can access to public or private LoRaWAN networks gateway. Because the features of long distance, low power and low cost connectivity, the Wireless transmitter is suitable for long-distance and long-term measurement of pressure. It also has a high-definition LCD display, users can easily read the measured values on the site.

Due to the rapid progress of LoRa communication technology, LoRa has been used more and more in the Internet of Things. We can provide LoRa-based pressure, level and temperature sensor, according to the international standards, customized development of LoRa frequency bands in different countries, CN470, AU915, US915, EU868, RU868, etc.

## 2 Application

- Petroleum, chemical,
- Mechanical engineering
- Process control and automation
- Hydrology and flow pressure measure
- Hydraulic pressure

## 3 Features

- LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market;
- Ultra-low power wireless technology allows the sensor can last up to 3 years with a ER34615 Li battery;
- IP66 rating for both indoor and outdoor applications;
- Easy programming, all parameters can easily be programmed on site or remote configuration;
- Low and High alarm can be set at full scale;

## 4 Specification

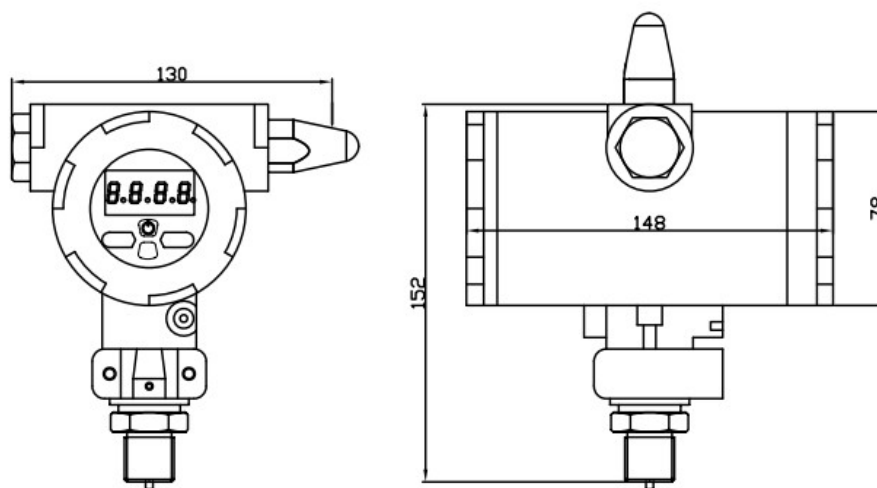
Measurement range	-0.1MPa---0MPa~0.01MPa---100MPa
Over pressure	200%FS( $\leq 10\text{MPa}$ ) or 150%FS( $> 10\text{MPa}$ )
Pressure type	Gauge pressure, absolute pressure, sealed gauge pressure
Power supply	3.6VDC battery, battery life two years
Working current	Working current: $< 130\text{mA}$ ; Standby state: $< 2\mu\text{A}$

Transmission distance	>5km (Areas without obstacles)
Sampling frequency	1~600 times/sec
Transmission intervals	1 minute to 1440 minutes (can be set)
Shell material	Aluminum alloy
Sensor	316L
Wetted material	316L
Sealing ring	HNBR
Protection	IP66
Medium	A variety of fluids that are non-corrosive to 316L stainless steel and Viton
Compensated Temp.	0℃ ~ +60℃
Working temp.	-20℃ ~ +60℃
Storage Temp.	-20℃ ~ +70℃
Accuracy	±0.5%FS/±1%FS
Zero temp. coefficient	0.03%FS/℃ (≤100kPa); 0.02%FS/℃ (> 100kPa)
Full-scale temp. coefficient	0.03%FS/℃ (≤100kPa); 0.02%FS/℃ (> 100kPa)
Long term stability	±0.25%FS/Year
Explosion proof	Ex ib IIC T4

LCD display may not be readable and LCD display updates will be slower at temperatures below -22 °F (-30°C).

When the ambient temperature is lower than -20°C, the capacity of the battery will drop significantly, resulting in shortened battery life.

## 5 Outline dimension Specification



(Unit: mm)

## 6 Order Guide

DR3464		Wireless Pressure Transmitter											
		Code	Pressure range bar										
		[0~X] kPa or MPa	-0.1MPa---0MPa~0.01MPa---100MPa										
			Code	Output signal									
			LW	LoRaWAN communication protocol									
					Code	Construction material							
						Diaphragm	Pressure port	Housing					
				22	SS 316L	SS 304	Aluminum-alloy						
				25	SS 316L	SS 316L	Aluminum-alloy						
						Code	Others						
						C <sub>1</sub>	M20×1.5 male, face type seal						
						C <sub>3</sub>	G1/2 male						
						C <sub>5</sub>	M20×1.5 male, waterline seal						
		P	Flush diaphragm, G1/2 male										
G	Gauge												
		S	Sealed gauge										
		A	Absolute										

DR3464 [0~2]bar LW 25 C<sub>1</sub>G the whole spec.