EST345Z Zigbee Wireless Pressure Transmitter

Product Introduction

The solution of EST345Z Wireless In-Line Pressure Transmitter is designed for Oil-water well where the remote-control process is requested, it can be deployed to remotely monitor the pressure/level of petroleum oil-water well production, and storage process, EST345Z Wireless In-Line type adopts Zigbee technology which is one of the micropower consumption wireless communication solutions,

ZigBee network: according to the name of the oil wells or designated identifier to calculate the unique network communication parameters (network ID, channel number, etc.). No sim card, no cable involved, easy installation, easy operation. The optional wireless transfer device can turn different kinds of signal into standard Modbus protocol, and transfer via Ethernet or serial port.

Highlight Features

- **Wireless:** Zigbee Communication
- **LCD Display:** For Pressure/Temperature/Battery value
- **LED Indicator:** For Resetting/Setting/Network/Data Collection
- **Field Installation:** Connecting via connector/adaptor with Pipeline Valve
- **Direction Adjusting:** Available
- **Ingress Protection:** IP68,
- **Waterproof:** Fully sealed waterproofing
- **Ex-Proof:** Intrinsically Safe Circuit

Applications

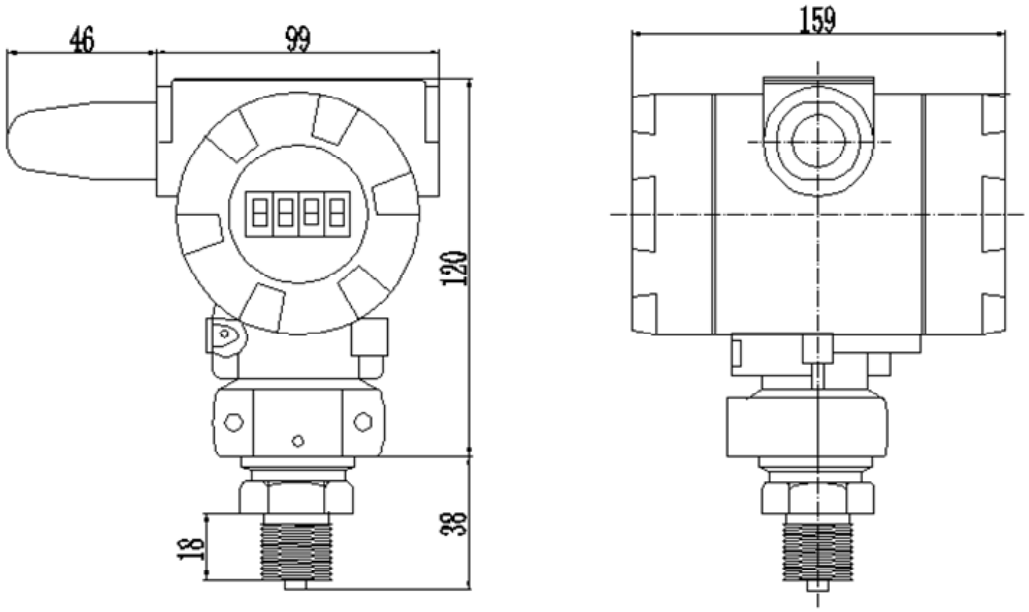
- Oil-water well
- Gasoline Monitor
- Petroleum
- Environment
- Pharmacy
- Health
- Protection
- Dairy

Technical Specification

Under the condition of non-transference, 316 SST isolating diaphragm and others

Measure Medium	Liquid/Gas /Oil Liquid	Distance	⩾500m
Pressure Range	0-6Mpa (customization available)	Frequency	2.5GHz-2.485GHz
Accuracy	0.25%; 0.5%	Power Consumption	Current ≤160mA;
Overpressure	150%/FS	Power Supply	3.6V
Upload Period	Between 1min to 12h	Ingress Protection	IP66-IP68
Decimal	0-3	Ex-Proof	Ex d ⅡC T5 Gb
Signal Transfer	Zigbee Wireless	Working Temperature	-40℃～75℃
Transmitting Power	⩽40mW	Working Humidity	⩽97% RH
Intensive Cllection	Cycle ⩾10s	Battery	3.6V/19,000mAh Lithium battery
Process connection	R1/2 "," G1/2, NPT1/2 ", M20 * 1.5	Net Weight	2000g

Outline Drawing



Note for installation:

- *Please turn off the valve on the tube where the pressure transmitter will be installed,*
- *Two ways are available for installation: ① connection the pressure transmitter via thread directly; ② use union joint or adapter to connect valve and pressure transmitter, the direction can be adjusted in case of this way.*
- *Please make sure there was no leakage when turn the value on again.*

LCD Display Instruction

1	Pressure overload alarming, LED indicator
2	I/O interface
3	Zero resetting, press and hold 2 second to erase the drift
4	Calibration button 1
5	Calibration button 2
6	Battery capacity indicator
7	Battery voltage indicator
8	Zigbee signal indicator
9	Zigbee signal strength indicator
10	Zigbee signal channel indicator
11	Pressure value
12	Pressure unit
13	Pressure scale indicator
14	Networking setup number

Note for calibration:

- *The calibration supports the connection with HART device, choose the initialization/reset button on HART, and input wireless signal channel, network, setup number, and save.*
- *A piece of magnet can be put aside the pressure transmitter for at least 6 second, wait to finish the reset process, record the data from HART.*
- *A "BEE" tone from HART mean the calibration finished successfully*
- *Please check the battery to make sure the capacity is enough to drive the pressure transmitter*
- *Please check the signal channel and networking setup ID and make sure they are matched with other devices which connected with pressure transmitter*
- *Please check the impulse process connection parts, to make sure they are not blocked, a necessary cleaning can be considered if the pressure value is obvious smaller than expected.*

Ordering Procedure

EST345				In-Line Smart Pressure Transmitter
	Code			Model
	Z			Zigbee Wireless
			Code	Rang
			1	0-3.5～35kPa
			2	0-10～100kPa
			3	0-35～350kPa
			4	0-0.1～1.0MPa

5	0-0.35～3.5MPa
6	0-1.0～10MPa
7	0-2.1～21MPa
8	0- 4.1～41Mpa
9	0- 6.0～60MPa
0	Others

Cod	Accuracy
A1	0.25% (70kPa~60Mpa)
A2	0.5% (5kPa~35Mpa)

Code	Construction Materials			
	Flange Adapter	Cast	Diaphragm Isolating	Fill
12	CS	SS304	SS316L	Silicone
14	CS	Cast Aluminium	SS316L	
22	SS316L	SS316L	SS316L	
23	SS316L	SS304	Hastelloy Alloy C	
24	SS316L	Cast Aluminium	Monel	
25	SS316L	SS304	Tantalum	

Code	Process Connection
M	M20*1.5
G2	G1/2
R2	R1//2
N2	NPT1/2

Code	Options
M4	LCD Digital Meter
Da	Explosion-Proof ExdsIIBT5
Fa	Intrinsically Safe ExiaIICT5

EST345	Z	6	A2	22	M	M4DaFa