| | SRSINTL Direct |
|---|---|
| | Web: www.srsintldirect.com |
| **Model** | Wireless Pressure Transmitter SRSACD-Z3 |



| Brief Introduction | SRSACD-Z3 Wireless pressure transmitter is mainly composed of pressure sensor, signal processing circuit, central processing unit (CPU) and the wireless communication circuit. Adopted the most advanced micro power device and perfect software management technology, build-in large capacity and high performance lithium battery with 3 ~ 5 years life time. This transmitter realizes the remote real-time monitoring and wireless transmission, there is no need site wiring and saves the trouble of instrument field wiring and the manpower and construction cost. The instrument is advanced in designing, variety specification is complete, easy to install and use, is the ideal upgrade product of traditional pressure transmitter. |
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| Application | 1. all kinds of industry pressure acquisition sites which cannot wire installation |
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| | 2. work well in corrosive, impact and versatility environment |
| | 3. meet the lab and industrial field high precision pressure acquisition requirement |
| | 4. replace the traditional indicator pressure gauge, can use as standard digital pressure gauge |
| Characteristics | 1. 11 units display: Pa kPa MPa psi bar mbar kgf/cm2 inH2O mmH2O inHg mmHg |
| | 2. 1-60s per time acquisition speed |
| | 3. five figures display on big LCD screen, can read at night |
| | 4. open design battery, easy to change |
| | 5. magnetic induction button design, eliminate interference and not easy to damage |
| | 6. pressure percentage bar charts shows |
| | 7. automatic temperature compensation technology to reduce error under bad environment |
| | 8. zero stable technology, increase the stability of the instrument |
| | 9. AES-128 encryption algorithm, the network authentication and authorization, safe and reliable data |
| | 10. automatic frequency hopping technology, has a unique ability to resist interference |

| Parameters | Display unit | Pa kPa MPa psi bar mbar kgf/cm2 inH2O mmH2O inHg mmHg | |
| --- | --- | --- | --- |
| | Measuring Range | Gage Pressure | -0.1MPa～260MPa |
| | | Differential Pressure | 0～3.5MPa |
| | | Absolute Pressure | 0～60MPa |
| | Accuracy grade | 0.05 / 0.1 / 0.2 / 0.5 | |
| | Power supply mode | build-in one 3.6V high power lithium battery | |
| | Picking rate | 1-60s per time, standard 5s per time, time can be controlled | |
| | Stability performance | <0.1% FS per year | |

| | Battery life | 3 years | | |
|---|---|---|---|---|
| | Operating temperature | -30℃～70℃ | | |
| | Relative humidity | ＜90% | | |
| | Barometric pressure | 86-106KPa | | |
| | Others | Calibration reference operating temperature 20℃±2℃ | | |
| | | 0.05 accuracy requires operating temperature 0-50℃ | | |
| | Medium Temperature | General temperature range | -40～120 ℃ | |
| | | Wide temperature range | -60～150 ℃ | |
| | Display mode | five figures dynamic display and percentage bar chart | | |
| | Protection Degree | IP65 | | |
| | Explosion-proof grade | ExialICT4 Ga | | |
| | Overload Pressure | 1.5-3 times of measuring range, depending on the measuring range | | |
| | Process Connection | Metric | M20×1.5 M14×1.5 M14×1 | |
| | | US/UK Standard | G1/2 G3/4 G1/8 G3/8 NPT1/2 NPT 1/4 NPT 1/8 | |
| Wireless Technology | Wireless spectrum | ISM（2.4~2.5）GHz（IEEE 802.15.4 DSSS） | | |
| | Wireless authentication | Zigbee：FCC ID: MCQ-XBS2C，IC: 1846A-XBS2C | | |
| | | WirelessHART：IEC 62591 HART，GB/T 29910.1～6-2013 HART | | |
| | Wireless Protocol | Zigbee：Zigbee 2007（ compatible with CNPC'S A11-GRM Communication Protocol） | | |
| | | WirelessHART：IEC62591 | | |
| | Receive Sensibility | ZigBee：-100dBm | | |
| | | WirelessHART：-95dBm | | |
| | Transmit Power | 8dBm（6.3mW） | | |
| | Communication Distance | 300m / 800m | | |
| | Network Security | AES-128 encryption algorithm, network authentication and network authorization | | |
| | Interference resistant ability | Automatic frequency hopping | | |
| Installation | Radial | Split body | | |

Dimension (Unit: mm)

58

47

160

Φ105

107