



SRSINTL Direct, INC.

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Model

Wireless Temperature Transmitter SRSACT-Z3



Brief Introduction

SRSACT-Z3 wireless digital pressure transmitter is mainly composed of temperature sensor, signal processing circuit, central processing unit and wireless communication circuit. Integrated nowadays is the most popular of the two kinds of industrial wireless communication way: ZigBee, Wireless HART, using the advanced micro power consumption devices and improve the software management technology, data alarm, data burst, instrument failure, battery alarm and other priority handling mechanism and ensure the real-time data monitoring and status of instrument. Built in high-capacity high-performance lithium battery powered, it can work continuously for 3 to 5 years. Realize remote real-time monitoring, wireless transmission, without the need for on-site wiring, eliminating the need for ordinary instruments on the field wiring trouble, saving manpower and construction costs. The instrument design is advanced, the variety is complete, the installation and use is simple and convenient, is the ideal

	upgrade product of the traditional temperature transmitter.
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Application	1. Suitable for all weather data collection and communication in the wild or harsh environment with no external power supply	
	2. suitable for temperature acquisition and display in environments of corrosion, impact and vibration	
	3. Meet the needs of high precision acquisition in laboratory and industrial field	
	4. Can be a standard Temperature Gauge instead of traditional pointer temperature gauge	
Characteristics	1. Epoxy resin sealing materials, anti-vibration, temperature resistant ,instinctive safety and explosion-proof	
	2. Acquisition speed 1~60Hz, settable freely	
	3. Power supply battery is of development of design, easy to replace any time	
	4. Buttons pressed with magnetic induction pen, exempt from interference, not easy to damage	
	5. Meets the acquisition requirements in places of corrosion, impact, vibration , and other harm environments	
	6. Broad screen of 5 digits LCD, easy to be sigh catching	
	7. Display with temperature percentage bar chart, easy to understand	
	8. Adopts Pressure spring type mechanism, the temperature sensitivity is high, the instrument response speed is fast	
	9. Zero Self-stability technology , ensure the stability of instrument	
	10. AES-128 encryption algorithm, network authentication, data security and reliability	
	11. Automatic frequency hopping technology, has a unique ability to resist interference	
Parameters	Temperature Units	°C (Centigrade) /°F (Fahrenheit degree)
	Configurable	

	Measure Range	Thermo couple	E: 0~750℃			
			K: 0~1200℃			
			S: 0~1300℃			
			B: 0~1600℃			
		Thermo resistance	Pt100: -200℃~500℃			
	Immersion Depth	50mm~2500mm (can be customized)				
	Accuracy	0.2 grade /0.5 grade				
	Stability	<0.3%FS/Year				
	Power Supply	One Built-in 3.6V high volume lithium battery				
	Acquisition Speed	1~60Hz, default is 1Hz, time is settable				
	Battery Service Life	One Built-in 3.6V high volume lithium battery, reference with environment temperature (16~25)℃				
		Acquisition Speed (Hz)	1	2	3	4
		Service Life(year)	3	3	3	3
		Acquisition Speed (Hz)	5	6	7~20	
		Service Life(year)	3	3	3	
	Environment Temperature	(-30~70)℃				
	Relative Humidity	<90%				
	Atmospheric Pressure	(86~106)kPa				
	Medium Status	Corrosive Medium	Use strong armored core with anti-corrosive ability or add protection tube for armored core			
		Viscous medium	add Armored Core protection tube			
Display	5 Digits LCD + percentage bar chart					
Protection Grade	IP65					
Explosion-proof grade	Ex ia IIB T4 Ga					
Process Connection	Metric	M27×2、M20×1.5、M14×1.5 , etc.				
	UK / US Standard	G1/2、G1/4、NPT1/2、NPT1/4, etc.				
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 Mounting

Dimension (Unit: mm)

