



SRSINTL Direct, Inc.

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Model

Standard Wireless Gateway SRSACI-2WG-2



Brief Introduction

Working like a communication base for ACI wireless instruments network, SRSACI-2WG-2 can realize the data acquisition, management and status monitoring by its self-organized wireless network. And based on RS-485 or Ethernet ModBus communication, SRSACI-2WG-2 provides a universal data integration and system interoperability. At the same time equipped with 8 analog current signal output, so that the original system without any changes to complete the transformation of the old system, the maximum degree of the original system to ensure the integrity of the original system. The products using high performance industrial grade 32-bit processor and industrial class wireless communication module, integrated nowadays is the most popular of the three kinds of industrial wireless communication way: ZigBee, WirelessHART, GPRS / CDMA. Based on embedded real-time operating system as software platform, with data priority alarm, data burst priority, address priority mechanism, SRSACI-2WG-2 ensures that monitoring data in real time, and has wireless gateway industry security, scalability, reliability of data, through self-constructed network , it can be

	added with at any time other equipment, and automatic network management, to ensure that field devices have the most reliable data transmission path.	
Characteristics	1. Support a variety of network topologies such as star, tree, mesh, etc.	
	2. The system is flexible and reliable, with the mechanism of data alarm priority, data mutation priority, address priority and so on	
	3. the network has the function of self-adaptation, and it can find the best communication path without manual intervention	
	4. Network expansion has the ability to restructure, when the network appears obstacles, it can automatically find the best way to find the best communication path	
	5. 2.4GHz universal frequency, can be subdivided into 16 channels	
	6. with the expansion of frequency hopping technology, unique anti-interference ability to increase the reliability of communication	
	7. wireless communication, without wiring, saving labor and construction costs, and improve efficiency	
	8. Gateway access uses standard interface protocol, and the integration of the existing host system is transparent and seamless	
Wireless Technology & Parameters	Wireless spectrum	ZigBee: ISM (2.4~2.5) GHz (IEEE 802.15.4 DSSS)
		Wireless HART: ISM (2.4~2.5) GHz (IEEE 802.15.4 DSSS)
		GPRS/CDMA: Meet the standard of GPRS/CDMA 1x Regulations
	Wireless authentication	Zigbee: FCC ID: MCQ-XBS2C, IC: 1846A-XBS2C
		WirelessHART: IEC 62591 HART, GB/T 29910.1~6-2013 HART
		GPRS/CDMA: Meet the Standard of ETSI GSM Phase 2+, FCC/SAR and CDG 1/2&3 Standards
	Wireless Protocol	Zigbee: Zigbee 2007 (compatible with CNPC'S A11-GRM Communication Protocol)
		WirelessHART: IEC62591
		GPRS/CDMA: Meet the Standard of GPRS/CDMA 1x Regulations
	Receive Sensibility	ZigBee: -100dBm
		WirelessHART: -95dBm
		GPRS/CDMA: Meet the standard of GPRS/CDMA 1x Regulations
	Transmit Power	ZigBee: 8dBm (6.3mW)
		WirelessHART: 8dBm (6.3mW)
		GPRS/CDMA: Meet the Standard of GPRS/CDMA 1x Regulation
	Communication Distance	ZigBee: 300m、800m
		WirelessHART: 300m、800m

		GPRS/CDMA: Meet the standard of GPRS/CDMA 1x Regulations
	Network Security	AES-128 encryption algorithm, network authentication and network authorization
	Interference resistant ability	Automatic frequency hopping
	Uplink communication interface	RS485 (MODBUS-RTU)
		Ethernet Interface (MODBUS-TCP)
	Output Signal	8 Wires (4 ~ 20) mA output, output accuracy: 0.2%FS
	Power Supply	(12~30) V DC
	Whole System Power	< 3W
	Environmental Temperature	(-30~70) °C
	Relative Humidity	<90%
	Atmospheric Pressure	(86~106) kPa
	Protection Grade	IP65
	Antenna	Short stick type fixed antenna, extended wire type suction cup antenna
Dimension (Unit: mm)		