Instaguard- Device intelligent care diagnostic system

Making device care even easier

中科时代 SINSEGYE

Intelligent data acquisition unit

Product introduction

Intelligent data acquisition unit multi-channel status acquisition system, specially for the unsteady operation monitoring of industrial key equipment, the product has 8, 16, 24 accelerations, temperature acquisition, speed measurement, slow variable acquisition. The biggest feature of the system is the modular design, supports a maximum of 24 accelerations and temperature acquisition, can also be configured into 8 slow variable physical quantity acquisition, such as pressure, temperature, voltage, current, etc. The product has key phase acquisition, and has configurable I/O input and output mode.

Product Description

- ✓ Intelligent data acquisition unit is suitable for compressor, pump, fan, motor and other equipment. It can be effectively applied in petroleum, chemical, steel, water, cement, mining and other industrial fields.

Product Description

- ✓ 8/16/24 IEPE acceleration channel acquisition, or slow variable acquisition;
- ✓ 24Bit ADC acquisition, 16 channels full synchronous sampling, and sampling rate up to 102.4K;

Product Description

- ✓ Support acceleration temperature integrated sensor;
- ✓ Support eddy current displacement sensor;
- ✓ Support key phase input, support speed acquisition;
- ✓ Support RS485 interface, can connect DCS, PLC;
- □ Comes with audio and video collection;

Product Description

- ✓ Compact size, 159*120*57 mm;
- □ A variety of fixing methods

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Product Specifications

Product Model	SD3200/ SD3210 / SD3211 / SD3212/ SD3213/SD3214		
Acceleration channel			
Number of channels	8 channels SD3200 / SD3210 16 channels SD3211 / SD3212 24 channels SD3213 / SD3214		
EX	EX db ia Ga II CT4 Gb 10 12 14 SD3210 / SD3212 / SD3214		
Non EX	SD3200 / SD3211 / SD3216		
Type of input	Non-isolated input		
Input range	±20 V		
Input impedance	>200 kΩ		
Dynamic van circumference	1 10d b		
Signal-to-noise ratio	90dB		
Support sensor class type	IEPE constant current source acceleration sensor		
	Eddy displacement transducer		
	Temperature sensor, measuring range -40 ° C ~ 120 ° C (equipment surface temperature)		
Fault diagnosis	Acceleration sensor short circuit, open circuit automatic detection		
Transmission interval	1 minute indicator and 2 minute time domain waveform		
Output mode	Total value, effective value and spectral time domain waveform		
Slow variable channel			
Measuring channel	4/8 channel		
Type of input	Isolated input, 1500V isolated		
Signal type	4 ~ 20 mA		
	±20 V voltage signal		
Digital input channel		Digit input channel	
Measurement channel	A 2/4 channel	Output channel	2/4 channel
Type of input	High speed optocoupler isolated input, 1500 V isolated		
Signal range	High level 3 to 24 V, 0.016 Hz to 20 kHz (1 rpm ~ 1200K rpm)	Output type	Optocoupler isolated output, 1500 V isolated
Sensor type	PNP proximity switch 2 wire, 3 wire		
	Pulse signal (TT L signal, level up to 24 V)	Output mode	Relay dry contact output
Sensor power supply	12 V current limit 3 0mA		

Note: the working temperature is -40 ° C to 75 ° C (working at the limit temperature or exceeding the limit temperature for a long time will affect the battery life and even damage the acquisition unit)

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Product Specifications

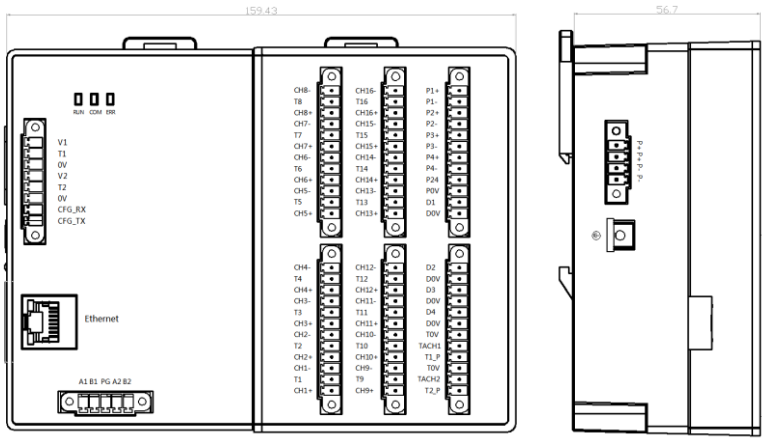
Audio channel		RS 4 85	
Measuring channel	2 channels	Interface channel	2 channels
Sensor type	IEPE Noise transducers	Interface isolation	2500V isolation
Input rage	±2 0V	Interface agreement supported	Modbus RTU
Bluetooth Communications		Ethernet	
Support band	2.400 GHz to 2.4835 GHZ	Communication standards	100Ba se - TX
Bluetooth Standard	Bluetooth version 4.2	Transmission medium	Category 5 Twisted pair
Wi-fi Communication		4G communications	
Rf standards	IEEE 802.11 a/b/g/n/ac	LT E-FDD \ LTE-TDD \ WCDMA, etc	
Rf output power	12db m (Max)	33d b m (Max peak GSM)	
Power supply		Storage	
Voltage class type	DC 8~3 6V	Industrial grade NAN D	1 G Bytes
Power	<15 W	Industrial-grade SD card	8 G Bytes
Mechanical parameters		Compliance with regulations	
Fuselage materials	Galvanized steel +PC melt resistant	Electromagnetic compatibility standard	IEC 61326- 1
Overall dimensions	159 mm x 1 2 0 mm x 57mm	Wireless frequency spectrum	ETSI EN 300 32 8
Fixed square	DI N 35 guide rail		

Note: the working temperature is -40 ° C to 75 ° C (working at the limit temperature or exceeding the limit temperature for a long time will affect the battery life and even damage the acquisition unit)

Intelligent data acquisition unit

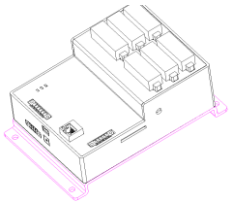
Product size

Unit: mm



Product accessories

The smart data acquisition unit can be matched with several attachments, which can either be purchased as a package or ordered or downloaded separately for the customer's choice.

No	Name	
1	Switching power supply (8-36V DC)	
2	Mounting bracket (optional)	
3	Wireless monitoring system hardware user manual	
4	Wireless monitoring system Quick use guide	