

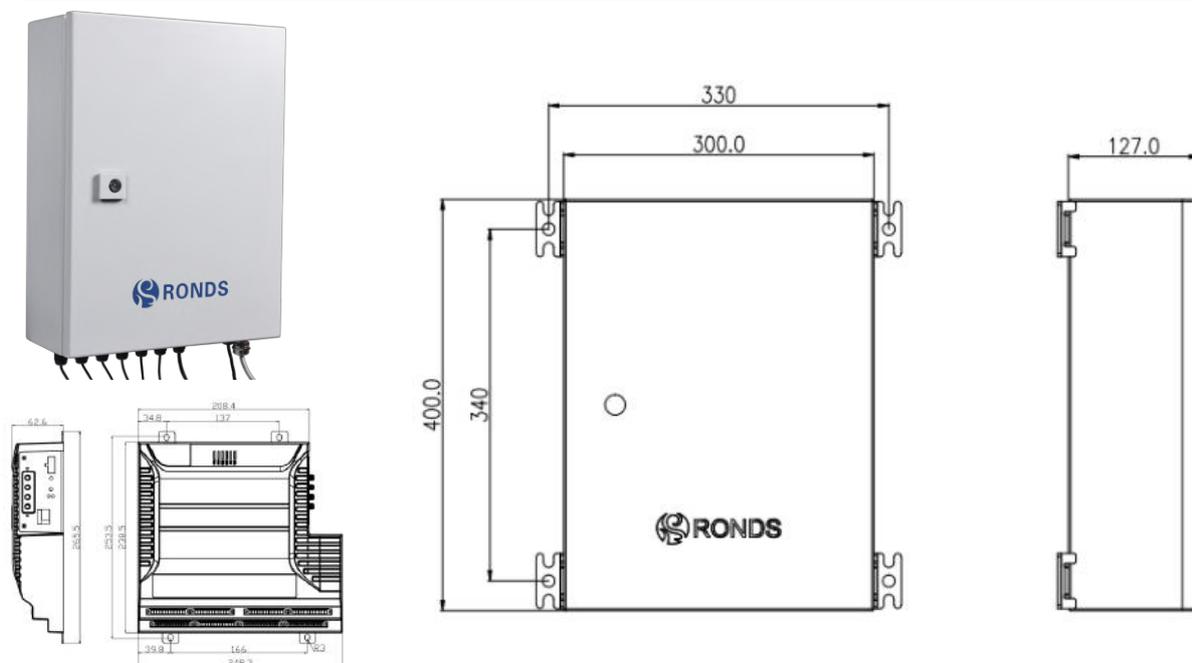
RH2000

Online Data Collector

Product Overview

RH2000 is Ronds new generation online data collector, it is used to process data from wired sensors. RH2000 is compatible with a variety of sensors including vibration, temperature, speed and process signal. It has a very powerful edge computing capability. Combined with Ronds Supercare system, it can achieve intelligent data collection, intelligent fault alarm and diagnosis. It is suitable for monitoring and analyzing key equipment in industries such as steel, wind power, and cement etc..

Product Picture and Dimension



Main Parameters

Parameters	Specification	Remark
Physical		
Dimension	Box version: 400mm × 320mm × 130mm (M) 400mm × 320mm × 160mm (H) Kernel version: 265mm × 248mm × 63mm	Length × Width × Height M: <16 channels H: ≥16 channels
Weight	Box version: 12kg Kernel version: 2kg	
Shell Material	Cold rolled sheet, 304, SUS316L	Material optional
Installation Method	Wall-mounted or pole-mounted	Mounting fixtures or accessories are required for installation

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Main Parameters

Parameters	Specification	Remark
Physical		
Ambient Temperature	-40°C to 70°C	
Storage Temperature	-50°C to 85°C	
Protection Grade	IP66	
Communication		
Communication with Network	Ethernet, WiFi, 4G, 5G	Options: Ethernet+4G; Ethernet+5G; Ethernet+Wifi; Ethernet;
Industrial Communication Interface	RS485	Optional
Power		
Power Supply	12VDC to 36VDC 90VAC to 264VAC	
Power Consumption	<15W	Maximum 15W
Basic		
Storage (EMMC)	8GB	Can be expanded
Supported Sensor	1. General IEPE vibration and temperature sensor 2. Speed sensor 3. 4mA to 20mA process signal sensor 4. 0VDC to 12VDC process signal sensor (-24VDC to 24VDC process signal can be supported through expand process board)	
Channels	8 + 2 + 2	Standard 8 channels V/T (Can be expanded to 16 & 24 channels) Standard 2 channels Speed (Unable to expand) Standard 2 channels Process signal (Can be expanded to 7 channels)

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Parameters	Specification	Remark
Vibration and Temperature Input		
Supported Sensor	General IEPE vibration and temperature sensor	
Input Impedance	750k Ω	
Input Coupling	AC	
Sensor Drive Current	4mA@24V	
A/D Conversion	24 bits delta-sigma ADC	
Signal Input Range	0V to 24V	
Sampling Frequency	51.2Hz、256Hz、512Hz、1280Hz、2560Hz、5120Hz、12.8KHz、25.6KHz、51.2KHz	
Spectrum Lines	3200, 6400, 12800, 25600, 51200, 102400, 204800, 409600, 819200	
SNR	98dB	
Dynamic Range	114dB	
Accuracy	$\pm 1\%$ @ 160Hz	
Frequency Response	0.2dB(10Hz to 5kHz) 0.6dB(2Hz to 20kHz)	
Integrated Temperature Measurement	Support	
Temperature Measurement Range	-40 $^{\circ}$ C to +120 $^{\circ}$ C	
Temperature Measurement Accuracy	$\pm 2^{\circ}$ C	
Wiring Length	≤ 300 m	
Speed Input		
Supported Sensor	1. DC12V PNP NO type proximity switch input 2. DC 5V to 24V isolated pulse input 3. DC 5V Hall speed sensor input	
Speed Measurement Range	12RPM to 30000RPM	
Accuracy	± 1 RPM@30000RPM	
Wiring Length	≤ 30 m	

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Parameters	Specification	Remark
Process Input		
Voltage Input Range	0VDC to 12VDC (-24VDC to 24VDC process signal can be supported through expand process board)	
Voltage Acquisition Accuracy	$\pm 0.5\%$	
Current Input range	4mA to 20mA	
Current Acquisition Accuracy	$\pm 0.5\%$	
Others		
Certification	CE/UKCA	