

DIGITAL INDUSTRIES SOFTWARE

Simcenter Anovis Signal Recording Device in 19-inch housing

Simcenter / AN-SRD-19-2CH / AN-SRD-19-2CH-24V /
AN-SRD-19-2CH / 2024/20240313

Product Information Sheet

Summary

The Simcenter Anovis Signal Recording Device (SRD) in 19-inch housing is a state-of-the-art data acquisition system suited for the requirements of quality testing in industrial production. It supports a wide range of applications through a variety of functional modules which are combined according to the customer's tasks. It is available for various operating voltages and with two variants for communication to the system PC.

The Simcenter Anovis Signal Recording Device is the standard signal recording hardware of the Simcenter Anovis Software.

BENEFITS

- Easy 19" rack mounting mainframe
- Configurable from 2 to 14 sensor plus 2 to 14 trigger/tacho channels
- wide-range AC (94-264 V, 50-60 Hz), and 24 V/DC version available
- TCP/IP or EtherCAT communication
- Ethernet connection to system PC enable up to 50 m cable length for distributed system configurations

FEATURES

- Industrial grade components with extended temperature range for optimized reliability
- LED front-panel indicators for enhanced status and health information
- Various modules available: BAM for acquisition of sensor data and trigger/tacho signals, OPD for operational data acquisition, MUX for switching between inputs

AN-SRD-19-2CH

Simcenter Anovis SRD basic device with 19" housing and 2 signal channels plus 2 trigger/tacho channels, without analysis software




AN-SRD-19-2CH-24V

Simcenter Anovis SRD basic device for 24 V power supply, with 19" housing and 2 signal channels plus 2 trigger/tacho channels, without analysis software

AN-SRD-19-2CH-EC

Simcenter Anovis SRD basic device with EtherCAT communication module, 19" housing and 2 signal channels plus 2 trigger/tacho channels, without analysis software



			
Product Code	AN-SRD-19-2CH	AN-SRD-19-2CH-24V	AN-SRD-19-2CH-EC
	2 channel Simcenter Anovis Signal Recording Device (SRD) in 19" housing	2 channel Simcenter Anovis Signal Recording Device (SRD) in 19" housing for 24 V external power supply	2 channel Simcenter Anovis Signal Recording Device (SRD) in 19" housing with EtherCAT COM module
Technical Data			
<i>Communication module</i>			
	<ul style="list-style-type: none"> Ethernet interface, 10/100 Mbit UDP, TCP/IP, freely configurable 24 V output; 5 V output (e. g. for light barrier) 8 MByte real time memory 		
			<ul style="list-style-type: none"> EtherCAT interface
<i>Analog input</i>			
Channels	2 synchronous channels – 24-bit sigma-delta converters		
Input ranges	<ul style="list-style-type: none"> SNR > 115 dB / 120 dB / 115 dB for input ranges: ± 10 V, ± 1 V, ± 0.1 V and sample rate 6.4 kHz SNR > 100 dB / 105 dB / 105 dB for input ranges: ± 10 V, ± 1 V, ± 0.1 V and sample rate 51.2 kHz SNR > 100 dB / 95 dB / 100 dB for input ranges: ± 10 V, ± 1 V, ± 0.1 V and sample rate 102.4 kHz SNR > 85 dB / 85 dB / 95 dB for input ranges: ± 10 V, ± 1 V, ± 0.1 V and sample rate 192.2 kHz 		
Coupling	<ul style="list-style-type: none"> DC coupling AC coupling with additional high-pass filter 75 Hz, 150 Hz 		
Sampling frequencies	3.2 kHz, 6.4 kHz, 12.8 kHz, 25.6 kHz, 38.4 kHz, 51.2 kHz, 76.8 kHz, 102.4 kHz, 153.6 kHz, 192 kHz		
Maximum bandwidth	75 kHz		
Supported sensors	<ul style="list-style-type: none"> microphones, accelerometers, laser Doppler vibrometers, voltage switchable ICP power supply +5 mA, signalized by LED ICP error signalized by LED (sensor short connected, no sensor connected) 		

Product Code	AN-SRD-19-2CH	AN-SRD-19-2CH-24V	AN-SRD-19-2CH-EC
Tacho Channels			
	<ul style="list-style-type: none">• 2 channels – 10-bit resolution• input voltage range: 20 V_{pp}• input impedance 4.6 kΩ• DC coupling• low-pass filters 6 kHz, 150 kHz, 20 MHz• sampling frequency: 48 MHz• trigger level 10 bit – in the range of -42 V to +42 V• TTL output (3.5 mm jack)• falling edge, rising edge, falling and rising edge, displayed by LED• LED display: active, inactive, overclocked		
Miscellaneous			
Power supply	<ul style="list-style-type: none">• 94 – 264 V AC, 50-60 Hz; typ. 20 W	<ul style="list-style-type: none">• 24 V DC; typ. 20 W	<ul style="list-style-type: none">• 94 – 264 V AC, 50-60 Hz; typ. 20 W
Environmental temperature	0 – 50 °C with active fan cooling, 0 - 25 °C without active fan cooling Maximum temperature inside of housing: 80 °C		
Protective class	IP20		
Dimensions (width x height x depth)	485 mm x 138 mm x 295 mm		
Weight	approx. 3 kg		

Product Code	AN-SRD-19-2CH	AN-SRD-19-2CH-24V	AN-SRD-19-2CH-EC
<u>Remarks:</u>			
	<ul style="list-style-type: none"> • free Ethernet port on PC required • software license not included 		<ul style="list-style-type: none"> • for integration into existing EtherCAT infrastructure • software license not included
<u>Deliverables:</u>			
	ANOVIS-SRD in 19" housing, equipped with <ul style="list-style-type: none"> • one POW module, • one COM module, and • one BAM module 	ANOVIS-SRD in 19" housing, equipped with <ul style="list-style-type: none"> • connector for external 24V power supply, • one COM module, and • one BAM module 	ANOVIS-SRD in 19" housing, equipped with <ul style="list-style-type: none"> • one POW module, • one EtherCAT COM module, and • one BAM module
	<ul style="list-style-type: none"> • 1 x IEC power cable for 19" rack; length approx. 1.5 m 		<ul style="list-style-type: none"> • 1 x IEC power cable for 19" rack; length approx. 1.5 m
	<ul style="list-style-type: none"> • 1 x Ethernet cable for connecting ANOVIS-SRD to PC; length approx. 1.5 m • Technical documentation in English 		