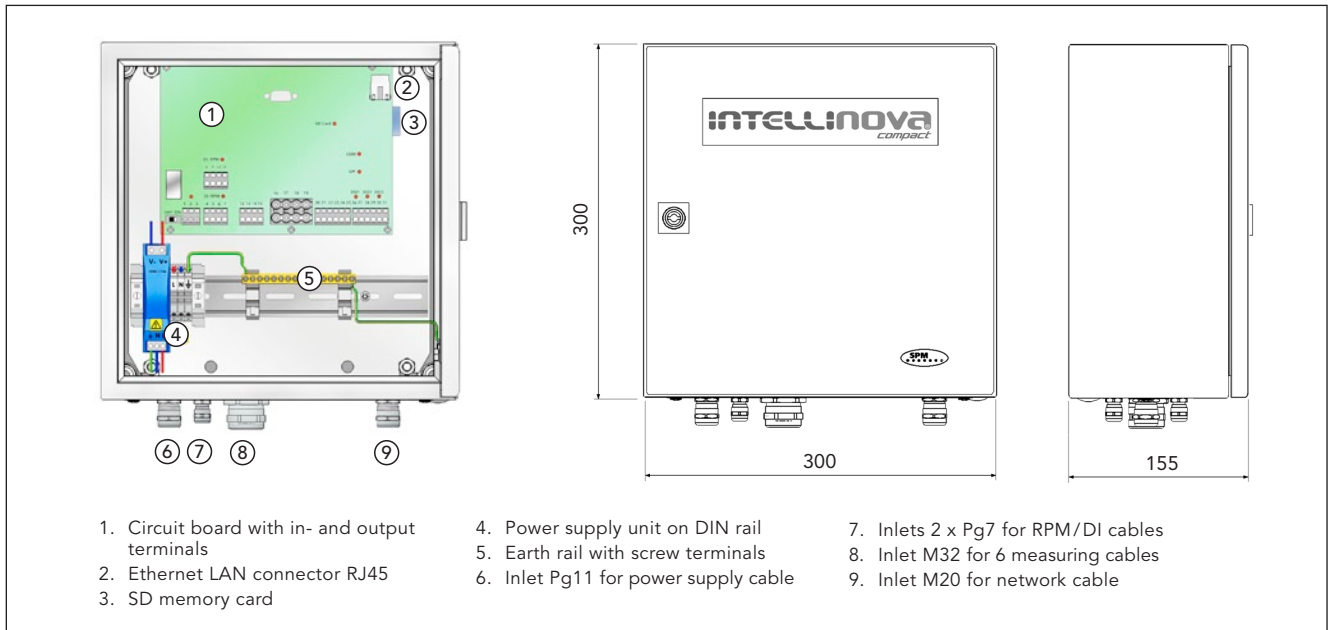


Intellinova® Compact – System Unit INS06



The system unit INS06 in the Intellinova Compact series is a small and advanced measuring unit for continuous monitoring of machine condition. The system unit is complete with power supply unit, DIN rail with screw terminals for earth connections and space for optional equipment. The enclosure, intended for wall mounting, is robust and sealed IP66 for use in harsh environments.

INS06 measures bearing condition on four channels, vibration on two channels and analog signals on three channels. Two

RPM transducers can be connected and linked to measuring assignments set up in Condmaster®Nova. The unit has three digital outputs for connection to PLC or via external relays to machine stop, external warning lamp, etc.

The unit is equipped with multiplexing measuring logic, alarm, storing and analysis logic. It is connected via standard Ethernet in a LAN network. The circuit board is equipped with status LED indicators and a SD memory card used for data buffering and setup of the unit.

Technical specifications

Design, enclosure:	enamelled steel, IP66
Memory:	SD card, 2 GB
LAN interface:	Ethernet TCP/IP, 10 Mbps
Power supply unit:	100 to 240 VAC, Output 12 VDC, 1.5 A
Operating temperature:	0 to +60 °C (32 to 140 °F)
Storage temperature:	-20 to +80 °C (-4 to 176 °F)
Relative humidity:	10% to 90% (non-condensing)
Dimensions (w x h x d):	300 x 300 x 155 mm (11.8 x 11.8 x 6.1 in)
Weight:	approx. 6.7 kg (14.8 lbs)

Bearing Monitoring

Measuring method:	SPM HD
Measuring channels:	4, multiplexing
Measuring range:	-20 to 80 HDsv
Amplitude scale unit:	HDm/HDc, Time Signal HD, SPM Spectrum HD
Transducer line test:	TLT test
Input connectors:	for coaxial cables with connector 12775
Transducer type:	SPM 44000 series, only for use with coaxial cables

Vibration Monitoring

Measuring methods:	ISO 2372, ISO10816, FFT with symptoms, EVAM
Measuring channels:	2, multiplexing
Frequency range:	0 (DC) to 40 kHz
Measuring range:	≥60g peak-peak (using 100mV/g transducer)

Resolution:	0.0015 m/s ² RMS (using 100mV/g transducer)
Measur. windows:	Rectangle, Hanning, Hamming, Flat Top
Averages:	time synch, FFT linear, FFT exponential, FFT peak-hold
Spectrum lines:	400, 800, 1600, 3200, 6400, 12800
Transducer type:	SLD144 or IEPE (ICP®) type transducers with a nominal bias output voltage of 10 to 14 VDC

Digital Inputs

Digital/RPM inputs:	2 channels, multiplexing
RPM transducer type:	proximity switches, supply 12 V DC
RPM measuring range:	1 to 120 000 rpm (when 1 pulse/rev.)

Digital Outputs

Digital outputs:	3, open collector, user configurable
------------------	--------------------------------------

Analog Inputs

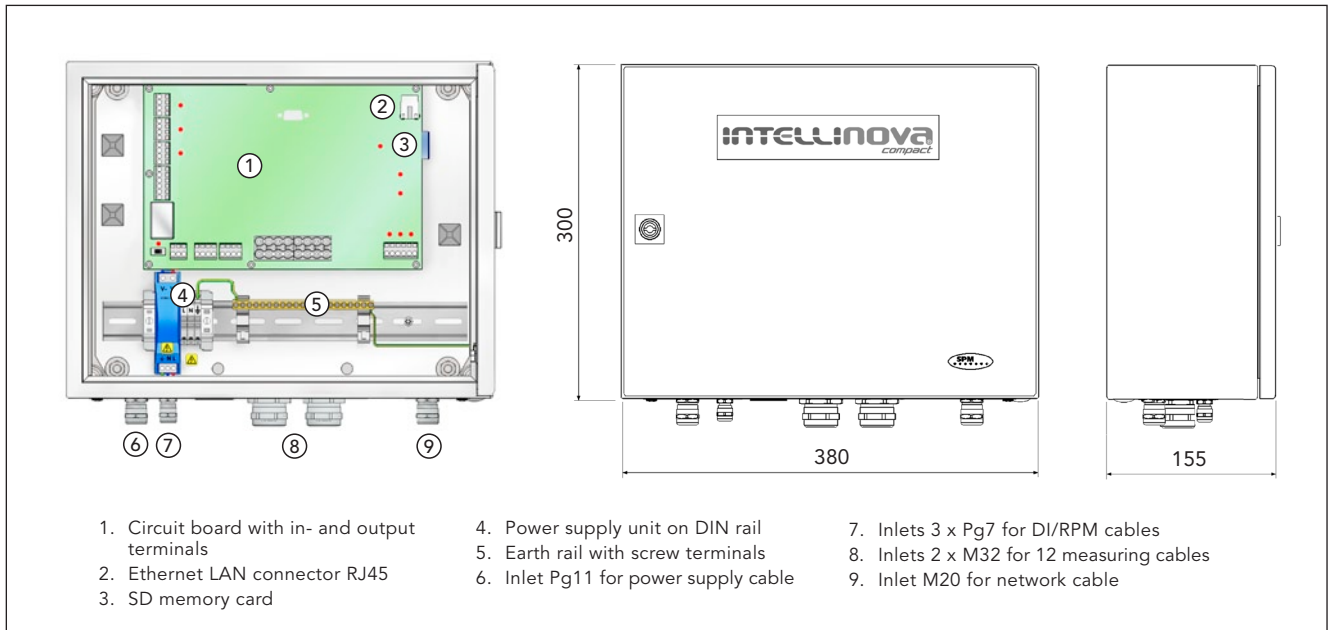
Input channels:	3
Measurement range:	0 to 20 mA
Resolution:	0.01 mA (12 bit)
Meas. accuracy:	± (1% +0.1 mA)
Input resistance:	current 100 Ω
Cable length:	max. 100 m

Accessories

12775	Connector for coaxial cable
81325	Mounting braces for wall mounting, 4 pcs.
90015	Rogowski coil for current measurement (TD-335)



Intellinova® Compact – System Unit INS12



The system unit INS12 in the Intellinova Compact series is a small and advanced measuring unit for continuous monitoring of machine condition. The system unit is complete with power supply unit, DIN rail with screw terminals for earth connections and space for optional equipment. The enclosure, intended for wall mounting, is robust and sealed IP66 for use in harsh environments.

INS12 measures bearing condition on eight channels, vibration on four channels and analog signals on three channels.

Up to three RPM transducers can be connected and linked to measuring assignments set up in Condmaster®Nova. The unit has three digital outputs for connection to PLC or via external relays to machine stop, external warning lamp, etc.

The unit is equipped with multiplexing measuring logic, alarm, storing and analysis logic. It is connected via standard Ethernet in a LAN network. The circuit board is equipped with status LED indicators and a SD memory card used for data buffering and setup of the system unit.

Technical specifications

Design, enclosure: enamelled steel, IP66
 Memory: SD card, 2 GB
 LAN interface: Ethernet TCP/IP, 10 Mbps
 Power supply unit: 100 to 240 VAC, Output 12 VDC, 1.5 A
 Operating temperature: 0 to +60 °C (32 to 140 °F)
 Storage temperature: -20 to +80 °C (-4 to 176 °F)
 Relative humidity: 10% to 90% (non-condensing)
 Dimensions (w x h x d): 380 x 300 x 155 mm (15x11.8x 6.1 in)
 Weight: approx. 8.2 kg (18 lbs)

Bearing Monitoring

Measuring method: SPM HD
 Measuring channels: 8, multiplexing
 Measuring range: -20 to 80 HDsv
 Amplitude scale unit: HDm/HDc, Time Signal HD, SPM Spectrum HD
 Transducer line test: TLT test
 Input connectors: for coaxial cables with connector 12775
 Transducer type: SPM 44000 series, only for use with coaxial cables

Vibration Monitoring

Measuring methods: ISO 2372, ISO10816, FFT with symptoms, EVAM
 Measuring channels: 4, multiplexing
 Frequency range: 0 (DC) to 40 kHz
 Measuring range: ≥60g peak-peak (using 100mV/g transducer)

Resolution: 0.0015 m/s² RMS (using 100mV/g transducer) Measur. windows: Rectangle, Hanning, Hamming, Flat Top
 Averages: time synch, FFT linear, FFT exponential, FFT peak-hold
 Spectrum lines: 400, 800, 1600, 3200, 6400, 12800
 Transducer type: SLD144 or IEPE (ICP®) type transducers with a nominal bias output voltage of 10 to 14 VDC

Digital Inputs

Digital/RPM inputs: 3 channels, multiplexing
 RPM transducer type: proximity switches, supply 12 V DC
 RPM measuring range: 1 to 120 000 rpm (when 1 pulse/rev.)

Digital Outputs

Digital outputs: 3, open collector, user configurable

Analog Inputs

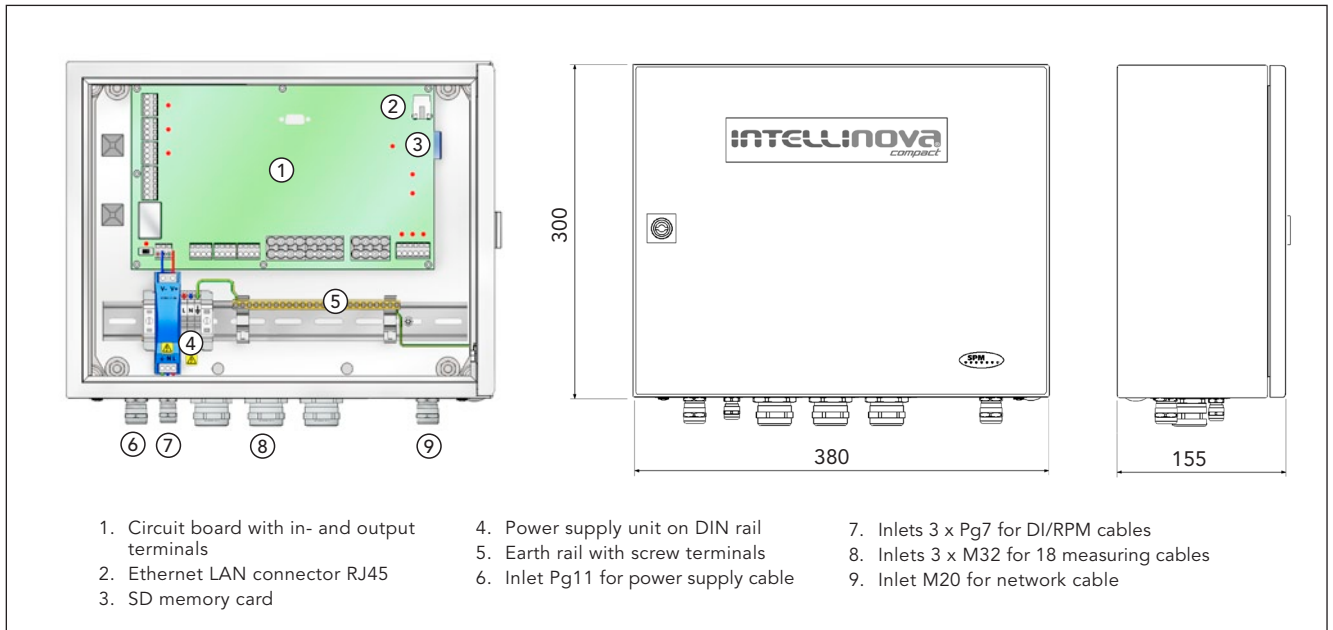
Input channels: 3
 Measurement range: 0 to 20 mA
 Resolution: 0.01 mA (12 bit)
 Meas. accuracy: ±(1% +0.1 mA)
 Input resistance: current 100 Ω
 Cable length: max. 100 m

Accessories

12775 Connector for coaxial cable
 81325 Mounting braces for wall mounting, 4 pcs.
 90015 Rogowski coil for current measurement (TD-335)



Intellinova® Compact – System Unit INS18



The system unit INS18 in the Intellinova Compact series is a small and advanced measuring unit for continuous monitoring of machine condition. The system unit is complete with power supply unit, DIN rail with screw terminals for earth connections and space for optional equipment. The enclosure, intended for wall mounting, is robust and sealed IP66 for use in harsh environments.

INS18 measures bearing condition on twelve channels, vibration on six channels and analog signals on three channels. Up

to three RPM transducers can be connected and linked to measuring assignments set up in Condmaster®Nova. The unit has three digital outputs for connection to PLC or via external relays to machine stop, external warning lamp, etc.

The unit is equipped with multiplexing measuring logic, alarm, storing and analysis logic. It is connected via standard Ethernet in a LAN network. The circuit board is equipped with status LED indicators and a SD memory card used for data buffering and setup of the unit.

Technical specifications

Design, enclosure:	enamelled steel, IP66
Memory:	SD card, 2 GB
LAN interface:	Ethernet TCP/IP, 10 Mbps
Power supply unit:	100 to 240 VAC, Output 12 VDC, 1.5 A
Operating temperature:	0 to +60 °C (32 to 140 °F)
Storage temperature:	-20 to +80 °C (-4 to 176 °F)
Relative humidity:	10% to 90% (non-condensing)
Dimensions (w x h x d):	380 x 300 x 155 mm (15x11.8x 6.1 in)
Weight:	approx. 8.2 kg (18 lbs)

Bearing Monitoring

Measuring method:	SPM HD
Measuring channels:	12, multiplexing
Measuring range:	-20 to 80 HDsv
Amplitude scale unit:	HDm/HDc, Time Signal HD, SPM Spectrum HD
Transducer line test:	TLT test
Input connectors:	for coaxial cables with connector 12775
Transducer type:	SPM 44000 series, only for use with coaxial cables

Vibration Monitoring

Measuring methods:	ISO 2372, ISO10816, FFT with symptoms, EVAM
Measuring channels:	6, multiplexing
Frequency range:	0 (DC) to 40 kHz
Measuring range:	≥60g peak-peak (using 100mV/g transducer)

Resolution:	0.0015m/s ² RMS (using 100mV/g transducer)
Measur. windows:	Rectangle, Hanning, Hamming, Flat Top
Averages:	time synch, FFT linear, FFT exponential, FFT peak-hold
Spectrum lines:	400, 800, 1600, 3200, 6400, 12800
Transducer type:	SLD144 or IEPE (ICP®) type transducers with a nominal bias output voltage of 10 to 14 VDC

Digital Inputs

Digital/RPM inputs:	3 channels, multiplexing
RPM transducer type:	proximity switches, supply 12 V DC
RPM measuring range:	1 to 120000 rpm (when 1 pulse/rev.)

Digital Outputs

Digital outputs:	3, open collector, user configurable
------------------	--------------------------------------

Analog Inputs

Input channels:	3
Measurement range:	0 to 20 mA
Resolution:	0.01 mA (12 bit)
Meas. accuracy:	± (1% +0.1 mA)
Input resistance:	current 100 Ω
Cable length:	max. 100 m

Accessories

12775	Connector for coaxial cable
81325	Mounting braces for wall mounting, 4 pcs.
90015	Rogowski coil for current measurement (TD-335)



SPM Instrument AB • Box 504 • SE-645 25 Strängnäs • Sweden

Tel +46 152 22500 • Fax +46 152 15075 • info@spminstrument.se • www.spminstrument.com

Technical data are subject to change without notice.

ISO 9001 certified. © Copyright SPM 2011-11. TD-342 B

