



Intellinova® Parallel EN

Intellinova® Parallel EN is a high-performance online system, perfectly suited for condition monitoring of industrial equipment with high availability demands.

Suitable for a wide range of applications

The various system versions can be combined to provide a suitable number of measuring channels for any application. With parallel and synchronous condition measurement on all channels, the system is a perfect fit where measurement is time-critical due to short process cycles, e.g., rolling mills, railcar dumpers, press nips, winders, or lifting and hoisting equipment such as cranes or drop sections.

Implementing HD condition monitoring technologies, the system is the ideal choice for gearboxes - including planetary gears - and low-speed applications (from below 0.1 RPM) such as agitators, crushers, or conveyors. It is also suitable for more straightforward applications like motors, pumps, and fans.

Intellinova Parallel EN can be run alongside its siblings in the Intellinova family of online systems in an integrated system or as stand-alone units.

Supreme condition monitoring efficiency

Intellinova Parallel EN continuously monitors your critical equipment, capturing relevant events without delay. With the DuoTech accelerometer, all measuring channels can be used for vibration and/or shock pulse monitoring. Combined with multiple RPM channels, data acquisition can be made successfully on machinery with complex drives, even under variable operating conditions.

The system tracks and manages changes in process and operating conditions, providing a reliable snapshot of equipment condition for entire machines. Measurement assignments can be set up to trigger individual channels or multiple system units in parallel and synchronously. The Condmaster diagnostic and analysis software offers user-defined filter settings, live spectrums, and live views of the state of all connected devices.



Typical applications:

- Wind turbines
- Rolling mills
- Railcar dumpers
- Converters
- Agitators
- Crushers
- Conveyors
- Press nips
- Winders
- Cranes
- Drop sections

Powerful measuring techniques

Intellinova Parallel EN implements the most sophisticated and efficient technologies available for monitoring vibration, bearing condition and lubrication:

- HD ENV, high definition vibration enveloping
- SPM HD, high definition shock pulse monitoring
- SPM LR/HR HD, shock pulse measurement method
- Broadband vibration measurement according to ISO 2372 or ISO 10816
- FFT with machine fault symptom evaluation
- User defined measurements via analog inputs or OPC, e.g., pressure, flow, load etc.

Industrial versatility

This robust monitoring unit is designed to manage demanding industrial environments and complex operating conditions in all industries.

- Wireless solution
- Continuous event capturing
- Flexible measurement and alarm management
- Digital and RPM inputs for event-triggered measurements, status outputs for alarm indication
- Various integration opportunities via REST API, OPC UA, etc., for exchange of process parameters and other data

Characteristics	INSEN4	INSEN8	INSEN16	INSEN32
Powder-coated steel cabinet	360x240x155 mm (14.2x9.4x6.1 in)	400x400x210 mm (15.7x15.7x8.3 in)	500x600x210 mm (19.7x23.6x8.3 in)*,**	500x600x210 mm (19.7x23.6x8.3 in)**
System unit	268x158x43 mm (10.6x6.2x1.7 in)	288x230x40 mm (11.3x9.1x1.6 in)	275x400x40 mm (10.8x15.7x1.6 in)	System unit for INSEN16 x 2
Measuring channels***	4	8	16	32
Analog inputs	2	2	4	8
RPM inputs	4	4	8	16
Digital inputs/outputs	2/2	2/2	4/4	8/8

*) Also available in stainless steel enclosure, 600x600x210 mm (23.6x23.6x8.3 in). **) Also available in 19 inch rack, 482x132(3U)x365 mm (19x5.2(3U)x14.4 in).

***) Both vibration and shock pulse measurements can be performed using DuoTech accelerometers.