



Intellinova® Parallel MB

Intellinova Parallel MB is a small and robust condition monitoring unit for parallel measurement on four channels, providing instant condition evaluation.

High-performance characteristics

Intellinova Parallel MB delivers advanced vibration analysis and shock pulse monitoring in a small, high-performance package. Careful hardware design and component selection ensures exceptional response time and high-efficiency data acquisition, making the system well suited for a wide variety of industrial applications. Intellinova Parallel MB boasts advanced and flexible alarm features, enabling immediate and reliable notice of changes in machine operating condition.

With online or offline capabilities, this compact-size unit supports all vibration and shock pulse techniques, including the high definition technologies HD Enveloping® and SPM HD® for superior vibration, lubrication and shock pulse monitoring.

Stand-alone or Modbus integration

Intellinova Parallel MB is an excellent candidate for first-line condition monitoring. Run as an offline unit, Intellinova Parallel MB can be connected for example to an alarm light, siren, circuit breaker or other external device, alerting for fault symptoms such as gear and bearing faults, unbalance, poor lubrication etc. In case of high readings, follow-up and further analysis can be done using a portable instrument on the unit's isolated signal output.

Intellinova Parallel MB is also easily integrated into existing industrial automation systems via the widely supported Modbus RTU protocol, thus enabling troublefree communication of measuring results to PLCs, SCADA or other process control systems.



- Cranes
- Wind turbines
- Machine tools
- Motors
- Gearboxes
- Fans

Measuring techniques

The unit is available in two versions; for vibration measurement - with optional shock pulse measurement via the DuoTech accelerometer - or for shock pulse measurement only.

- Vibration measurement, ACC, VEL, DISP rms
- Symptom values, e.g. bearing symptoms (BPFO etc.), unbalance, gear mesh and more
- HD Enveloping; high definition vibration enveloping for detection of early stage gear and bearing faults
- Shock pulse method (HDm/HDc, LR/HR)
- Spectrum and time signal

Easy configuration

The unit is easy to configure, using rotary switches on the front panel. In offline mode, the appropriate settings are selected from a large number of predefined setups stored in an internal configuration file. When operating online, the measurement setup is configured via the Modbus master. To ensure that no critical events go unnoticed, the unit can be set up to repeat its configured measurements as often as possible.

The units have a robust housing made of aluminum and are intended for standard DIN rail mounting.

Characteristics	INSMB4V	INSMB4S
Dimensions (L x W x H)	99.0 x 105.4 x 72.7 mm	144.0 x 105.4 x 72.7 mm
Measuring channels	4 for vibration and/or shock pulse measurement	4 for shock pulse measurement
Transducer type, vibration	IEPE type and DuoTech accelerometers	--
Transducer type, shock pulse	DuoTech accelerometers	Shock pulse transducers
Digital in/outputs / RPM inputs	6 (configurable) / 2 (parallel)	6 (configurable) / 2 (parallel)