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Intellinova[®] Compact

Intellinova Compact is a high performance system, well suited for remote monitoring in marine/offshore environments with measuring points in spread-out clusters.

Areas of application

Suitable for all types of applications, this leading-edge system offers the strongest combination of measuring techniques available, providing maximum flexibility for fault detection. Thrusters, turbo chargers and reduction gears are a few examples where Intellinova Compact is the ideal condition monitoring solution. Top drives, HPU and generators are other typical applications. Implementing HD condition monitoring technologies, it also the appropriate choice for low-speed applications such as drawworks, winches, cranes, etc.

Intellinova Compact is fully compatible with its siblings in the Intellinova family of online systems and can be run in an integrated system or as standalone units.

Optimal cost efficiency

The system is available in four versions, each with a fixed channel configuration for shock pulse and vibration measurement.

All versions come with multiple RPM and analog inputs as well as status outputs. Using the IntelliLogic functions, these hardware features can be taken full advantage of. The system has the capability to accept process data and evaluate the running condition based on that and on measurement data, making the Intellinova units well suited for monitoring machinery with complex operating procedures. A wide range of options enables you to set up the system to measure only the right things, at the right time.



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Typical applications:

- Thrusters
- Generators
- Reduction gears
- Top drives
- HPU's
- Mud pumps
- Jack-up drives
- Drawworks
- Winches
- Cranes

Powerful measuring techniques

Intellinova Compact 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

The system is designed to manage tough industrial environments and complex operating conditions in all industries.

- Wireless solution
- IntelliLogic, enabling flexible measurement and alarm management
- Digital and RPM inputs for situation-controlled measurements, and status outputs for alarm indication
- OPC communication for import and export of process parameters

| Characteristics | INS06 | INS12 | INS18 | INS08V |
|--|-------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Enamelled steel enclosure, dimensions | 300x300x155mm (11.8x11.8x6.1 in) | 380x300x155mm (15x11.8x6.1 in) | 380x300x155mm (15x11.8x6.1 in) | 380x300x155mm (15x11.8x6.1 in) |
| Measuring channels, shock pulse | 4 | 8 | 12 | _** |
| Measuring channels, vibration | 2* | 4* | 6* | 8* |
| Analog inputs | 3 | 3 | 3 | 3 |
| Digital inputs (RPM) / Digital outputs | 2 / 3 | 3 / 3 | 3 / 3 | 3 / 3 |

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

***) The unit does not have any separate shock pulse channels, but see *)