

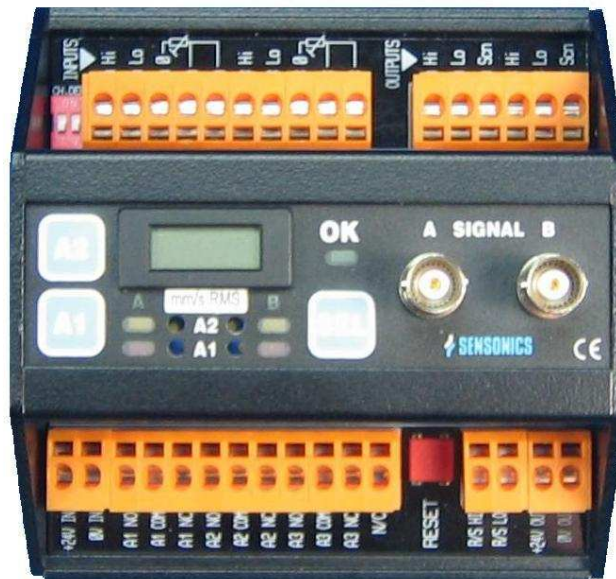
DN2611 Dual Vibration Protection Monitor



This high performance signal conditioning unit is ideally suited to providing protection of many types of rotating machinery from breakdown, including turbines, motors, pumps, fans, etc.

Its small size and din rail mounting format allow it to fit in equipment panels with other equipment or locally to the monitored machine in a junction box. The Unit has been designed to fit both 35mm and G type DIN rails. The DN2611's alarms can be used to automatically trip plant through integral relays and analogue outputs are available for DCS / PLC integration.

Suitable for SIL (IEC 61508) rated applications and field proven.



- Input:** 2 x 2 wire accelerometers, 100mV/g sensitivity as standard. (Option for velocity transducer input available).
- Power:** 24V dc (22 – 28V dc) @ 250mA
- Mode:** Monitoring can be switched between acceleration and velocity.
- Display:** 3 digit LCD display switchable between channels and alarm setpoints. Display is in engineering units. (mm/s or Inch/s)
- Outputs:** 2 x 4-20 mA outputs proportional to vibration level (1 per channel).
- Signal:** Buffered raw transducer signal available on dual BNC connectors for simultaneous analysis.
- Alarms:** 2 x individually adjustable level alarms, (2 per channel).
Alarm time delay option.
1 x common system integrity alarm.
Relay contacts rating 125V ac/dc 0.5A / max 2.0A at 30Vdc.
Pushbutton and remote reset facility.
- Scaling:** Vibration levels are selectable on site, from a standard list, by the positioning of onboard switches.
- Filters:** High and low pass filters are selectable on site, from a standard list, by the positioning of onboard switches.

DN2611 Dual Channel Vibration Monitor Module Ordering Information

In order to enable us to build the monitor modules to your requirements we need to know the following information. This is also a useful guide to illustrate the features and settings available with the DN2611.

ORDERING INFORMATION

DN2611 - ^A - ^B - ^C - ^D - ^E - ^F - ^G - ^H - ^I

- A) Input**
- A**
- | | | |
|--------------------------|----------|--|
| <input type="checkbox"/> | 1 | Accelerometer, 2 wire, 100mV/g. (Standard) |
| <input type="checkbox"/> | 2 | Velocity transducer, 2 wire – (please provide details). |
| <input type="checkbox"/> | 3 | Velocity transducer, 3 or 4 wire – (please provide details). |

- B) Output Signal.**
- B**
- | | | |
|--------------------------|----------|--|
| <input type="checkbox"/> | 0 | None |
| <input type="checkbox"/> | 1 | 1x 4-20mA, Current O/P per channel (Standard) |
| <input type="checkbox"/> | 2 | 1x 0-1V Voltage O/P per channel |
| <input type="checkbox"/> | 3 | 1x 0-5V Voltage O/P per channel |

- C) Metric or Imperial units displayed**
- C**
- | | | |
|--------------------------|----------|--------------------------|
| <input type="checkbox"/> | 1 | Metric (Standard) |
| <input type="checkbox"/> | 2 | Imperial |

Note: Only Code items D, E & F can be set on site by selecting internal DIL switches

- D) Measurement range for output**
- D**
- | | | |
|--------------------------|----------|--|
| <input type="checkbox"/> | A | 0-10g acceleration |
| <input type="checkbox"/> | B | 0-25g acceleration |
| <input type="checkbox"/> | C | 0-10 mm/s velocity |
| <input type="checkbox"/> | D | 0-12.5 mm/s velocity, (0-0.5 inch/s) |
| <input type="checkbox"/> | E | 0-15 mm/s velocity |
| <input type="checkbox"/> | F | 0-20 mm/s velocity |
| <input type="checkbox"/> | G | 0-25 mm/s velocity, (0-1 inch/s) (Standard) |
| <input type="checkbox"/> | H | 0-50 mm/s velocity, (0-2 inch/s) |
| <input type="checkbox"/> | I | 0-100 mm/s velocity, (0-4 inch/s) |

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|--|--------------------------|--------------------------|-------------------------|--------------------------|----------|-------|--------------------------|----------|--------|--|--------------------------|----------|--------------------------|--------------------------|----------|------|--------------------------|----------|-------|
| <p>E) Lo pass filter, high end cut off</p> <p style="text-align: center;">E</p> <table border="0"> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;">1</td> <td>1 kHz (Standard)</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2</td> <td>2 kHz</td> </tr> <tr> <td><input type="checkbox"/></td> <td>3</td> <td>10 kHz</td> </tr> </table> | <input type="checkbox"/> | 1 | 1 kHz (Standard) | <input type="checkbox"/> | 2 | 2 kHz | <input type="checkbox"/> | 3 | 10 kHz | <p>F) High pass filter, low end cut off</p> <p style="text-align: center;">F</p> <table border="0"> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;">1</td> <td>2.5 Hz (Standard)</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2</td> <td>5 Hz</td> </tr> <tr> <td><input type="checkbox"/></td> <td>3</td> <td>10 Hz</td> </tr> </table> | <input type="checkbox"/> | 1 | 2.5 Hz (Standard) | <input type="checkbox"/> | 2 | 5 Hz | <input type="checkbox"/> | 3 | 10 Hz |
| <input type="checkbox"/> | 1 | 1 kHz (Standard) | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | 2 | 2 kHz | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | 3 | 10 kHz | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | 1 | 2.5 Hz (Standard) | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | 2 | 5 Hz | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> | 3 | 10 Hz | | | | | | | | | | | | | | | | | |

- | | | | | | | | | | | | | | |
|--|--------------------------|------------------------|----------------------|--------------------------|--|--------------------|---|--------------------------|----------|----------------------|--------------------------|----------|------------------------|
| <p>G) Alarm delay</p> <p style="text-align: center;">G</p> <table border="0"> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;">1</td> <td>1s (Standard)</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> <td>3, 5 or 10 seconds</td> </tr> </table> | <input type="checkbox"/> | 1 | 1s (Standard) | <input type="checkbox"/> | | 3, 5 or 10 seconds | <p>H) For use with galvanic isolator</p> <p style="text-align: center;">H</p> <table border="0"> <tr> <td style="width: 20px;"><input type="checkbox"/></td> <td style="width: 20px;">1</td> <td>NO (Standard)</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2</td> <td>YES (no current diode)</td> </tr> </table> | <input type="checkbox"/> | 1 | NO (Standard) | <input type="checkbox"/> | 2 | YES (no current diode) |
| <input type="checkbox"/> | 1 | 1s (Standard) | | | | | | | | | | | |
| <input type="checkbox"/> | | 3, 5 or 10 seconds | | | | | | | | | | | |
| <input type="checkbox"/> | 1 | NO (Standard) | | | | | | | | | | | |
| <input type="checkbox"/> | 2 | YES (no current diode) | | | | | | | | | | | |

- I) Latching**
- I**
- | | | |
|--------------------------|----------|--|
| <input type="checkbox"/> | 1 | Fleeting alarms, non-Latching (return to normal state when condition is rectified) |
| <input type="checkbox"/> | 2 | Latching alarms (press reset button to return to normal state) (Standard) |

DS 1214



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