

Features

- Peak to Peak Vibration Measurement
- Direct 4-20mA current loop output
- Transducer dynamic signal output
- For use with 8mm & 5mm diameter Proximity Probes

The DN 8031 Vibration Transmitter is designed to measure relative shaft vibration on critical rotating plant. The unit operates in conjunction with Sensonics standard range of 8mm and 5mm diameter proximity probes, offering a choice of factory set vibration ranges.

Integrating the proximity probe driver functionality and signal processing to provide a peak to peak vibration measurement offers a cost effective approach to shaft vibration monitoring. The 4-20mA loop powered transmitter affords easy integration with either the machine PLC or a plant wide DCS.

Providing an output current proportional to vibration, the Din Rail mountable unit also permits adjustment for the setting of the probe gain to allow for target variations.

Specification

Hi / Lo Output:	4-20mA dc Current Loop Sink
Linear Range:	0-100um, 0-125um, 0-250um
Current Loop Sensitivity:	6.25um/mA, 7.81um/mA, 15.63um/mA
Accuracy:	± 1%
Linearity:	<± 1%
Frequency Response:	2 Hz to 5 kHz
Max Loop Resistance:	500 Ohms (recommended max at +24V)
Input Voltage Range:	+16V – +28V dc
Temperature Range:	-10°C to +60°C
Weight:	250 grams
Dynamic Signal Output:	4.0V / mm

Ordering Information

DN8031

System Cable Length

5 – 5m

7 – 7m

9 – 9m

Pk – Pk Range

0 - 0 – 100um

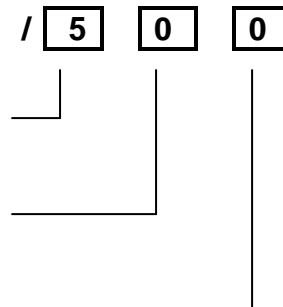
1 - 0 – 125um

2 - 0 – 250um

Mounting

0 - std plate

1 - 35mm DIN rail



Note: This product is for use with Sensonics 8mm and 5mm diameter range of proximity probes and extension cables. Refer to datasheets:

- L156 - PRS02 5mm Straight Mount
- L157 - PRS04 8mm Straight Mount
- L159 - PRR04 8mm Reverse Mount

DS1223

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