



**Features**

- Up to  $\pm 1\text{mm}$  of Thrust Measurement
- 4-20mA loop current output
- Transducer signal output (gap)
- For use with 8mm Proximity Probes
- Zero and Gain controls.

The DN 8033 Thrust Transmitter is designed to measure shaft axial position on a range of rotating plant. The 4-20mA loop powered transmitter offers easy integration with either the machine PLC or a plant wide DCS.

The unit operates in conjunction with Sensonics standard or extended range of 8mm diameter proximity probes, offering a maximum range of  $-2\text{mm}$  to  $+2\text{mm}$ . This extended range provides further scope for the set up and calibration of the thrust measurement system, which can be restricted by float in the shaft and access to the target.

Providing an output current proportional to displacement, the Din Rail mountable unit provides two miniature multi-turn potentiometers for the setting of the gain and zero point parameters.

**Specification**

Hi / Lo Output:	4-20mA dc Current Loop Sink
Linear Range:	$\pm 1.0\text{mm}$
Current Loop Sensitivity:	8uA/ $\mu\text{m}$
Accuracy:	$\pm 1\%$
Linearity:	$< \pm 1\%$
Frequency Response:	0 to 1kHz
Max Loop Resistance:	500 Ohms (recommended max)
Input Voltage Range:	+16V – +28V dc
Temperature Range:	$-10^\circ\text{C}$ to $+60^\circ\text{C}$
Weight:	250 grams
Signal Output:	4.0V / mm

**Ordering Information**

<b>DN8033</b>	/	<b>5</b>	<b>0</b>	<b>0</b>
System Cable Length				
5 – 5m				
7 – 7m				
9 – 9m				
Range				
0 – $\pm 1.0\text{mm}$				
1 – $\pm 0.6\text{mm}$				
Mounting				
0 – std plate				
1 – 35mm DIN rail				

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

- L157 - PRS04 8mm Straight Mount
- L159 - PRR04 8mm Reverse Mount

DS1222