



Technical specification

VIS10 Vibration sensor



FLYGT **VIS 10**
Supply Voltage: 10-30 V DC
Output: 4-20 mA (0-50 mm/s)
Part no: 669 8800
Serial no: 0123-54321
ITT Flygt AB



Flygt



ITT Industries

Vibration sensor VIS 10

The Flygt vibration sensor VIS 10 is intended to monitor and protect pumps and connecting piping from harmful vibration. It is mounted inside the pump junction box and measures the vibrations in one direction. The output is a 4-20 mA direct current proportional to the vibration level. It is suitable for connection to the Flygt pump monitoring relay MAS 711 or Flygt controllers with a 4-20 mA input.

VIS100 contains a very robust and impact resistant accelerometer of piezoelectric type. The accelerometer signal is integrated into oscillation speed, filtered with a band pass filter (10-1000 Hz) in accordance with standard ISO 2954, and further processed to provide the RMS-value of vibration.

The two wires provide both supply of the sensor as well as transmission of the 4-20 mA vibration signal.

Superimposed signal

In case a high vibration level is detected, it is possible to further analyse the cause of failure. Superimposed on the 4-20 dc signal is an oscillation speed signal, which can be used for frequency analysis with a spectrum analyzer.

Connection to MAS 711

VIS 10 can be used with the Flygt pump monitoring unit MAS 711, which has a general 4-20 mA input configurable for vibration monitoring. MAS has two adjustable alarm limits. If the vibration exceeds the first level, a warning (yellow lamp) is given. If the vibration increases further to reach a harmful level, MAS will stop the pump and a red lamp is lit.

Technical Data

Power supply:	10 – 30 V dc, brown = +, blue = - Protection: Wrong polarity Overvoltage up to 100 V dc
DC output signal:	4 – 20 mA corresponding to 0 – 50 mm/s rms Frequency band: 10 – 1000 Hz Time constant: 1 second
Superimposed signal:	1 mA corresponds to 50 mm/s Frequency band: 10 – 1000 Hz
Temperature range:	-20 - +85° C
Measuring direction:	One direction, diagonally from the cable entry to the opposite corner
Ingress protection:	IP65
Casing material:	Acid proof steel
Mounting:	Center hole for an M6 screw
Physical dimensions:	60x60x12 mm (LxWxH)
Part no:	6698800