

WindSafe® 2D-Tower Vibration Sensor KS22-I

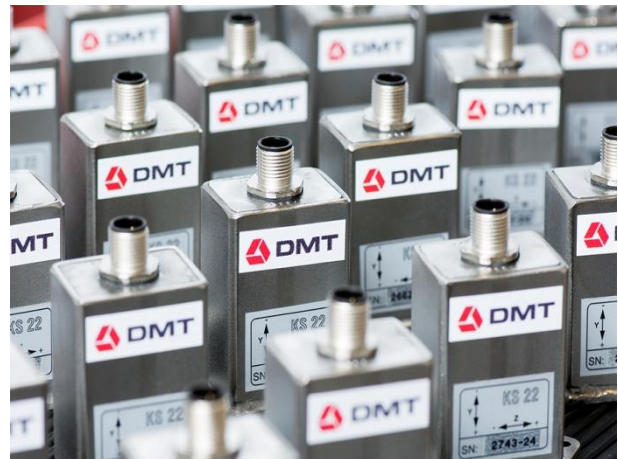
The sensor measures the vibrations of the wind turbine tower. The purpose of the measurement is to monitor and record the operating conditions.

The KS22-I which is integrated into the control system signals:

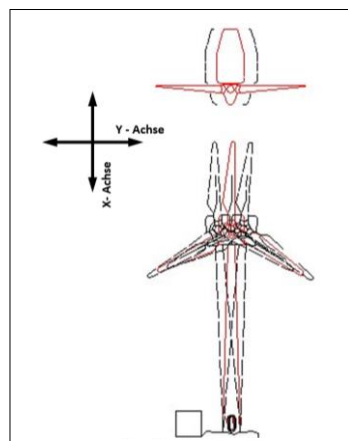
- Tower vibrations
- Blade resonances
- Unbalances
- Overstressing

Measured-value acquisition:

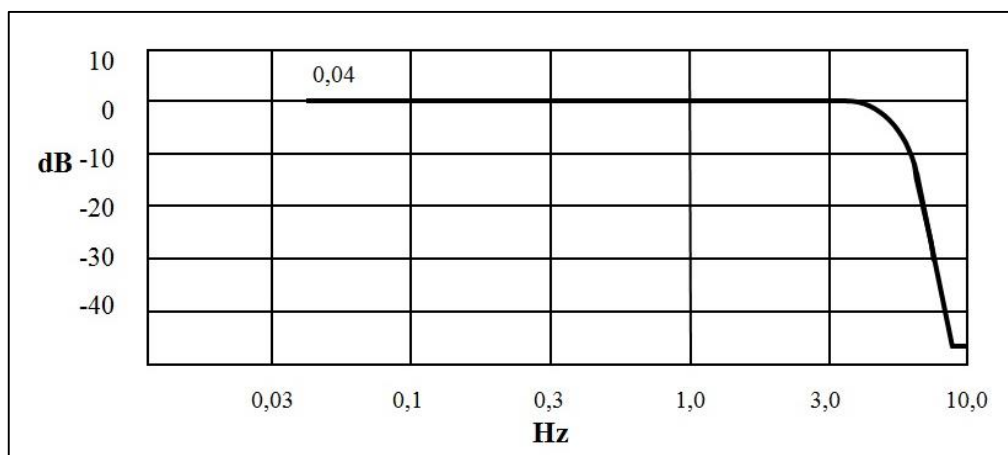
- 2 axes simultaneously
- Vibration acceleration



DMT Sensor KS22-I



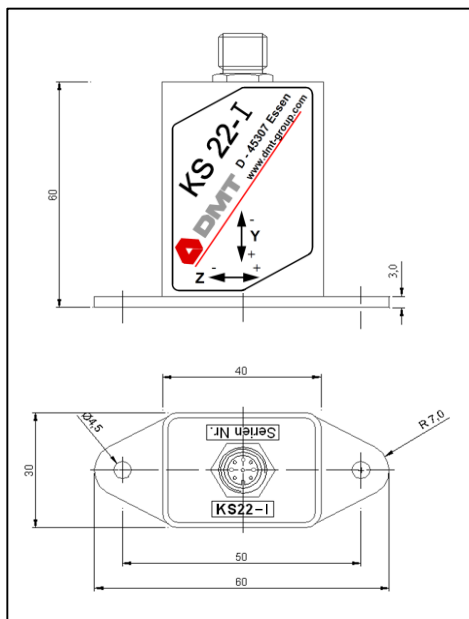
Vibration of a Wind Turbine Tower



Frequency response KS22-I

Technical Data

Measuring axes	2	y/z
Sensor constant	1,6	mA/(m/s ²)
Measuring range	± 5	m/s ²
Supply consumption	20-30 (temporarily 33)	V DC
Power consumption	10	mA
Frequency range	0,01 ... 5	Hz
Attenuation at 10 Hz	>20	dB
Chebyshev filter (fourth order)	0,5	dB ripple
Analog output / Zero position	12 ± 0,05	mA
Output range	4 ... 20	mA
Setting time	30 ±	seconds
Weight (without cable)	282	gram
Connection	Axial	
Type: Connector SACC-E-M12MS-8CON-PG9/0,5	1554571	Phoenix
Temperature range	-40° ... / +65°	Celsius
Degree of protection	66	IP
Output resistance	500	Ω
Dimensions	See drawing	
Housing material	V2A high-grade steel	

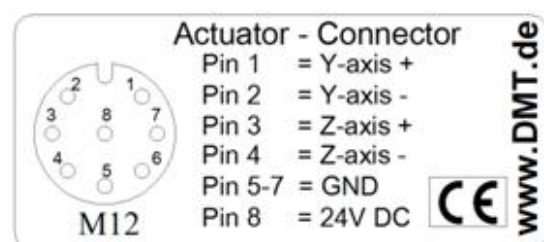


Dimension drawing: We reserve the right to make changes in the interest of technical development

Note:

Subjecting the sensor housing to mechanical stress can lead to malfunctions and invalidate the warranty.

Do not drop the sensor and protect from severe impact, static charge and overload.



DMT GmbH & Co. KG
Industrial Engineering

Am Technologiepark 1
45307 Essen, Germany

Tel +49 201 172-1666
Fax +49 201 172-1555
products@dm-t-group.com
www.dmt-group.com

TÜV NORD GROUP

DIN EN ISO
14001
certified

DIN EN ISO
9001
certified