

## 2D-Tower Vibration Sensor KS22-U



DMT Sensor KS22-U

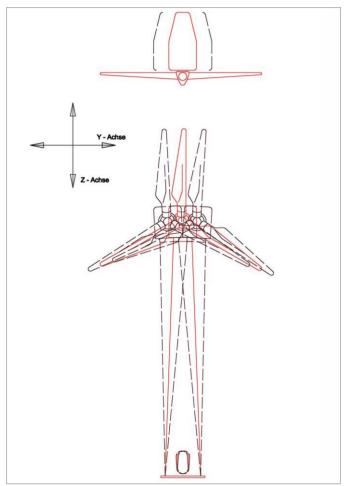
The sensor measures the vibrations of the wind turbine tower. The purpose of the measurement is to monitor and record the operating conditions.

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

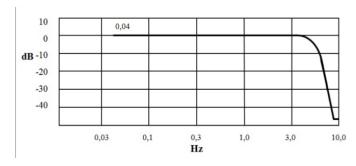
- Tower vibrations
- Blade resonances
- Unbalances
- Overstressing

## Measured-value aquisition:

- 2 axes simultaneously
- Vibration acceleration



Vibration of a Wind Turbine Tower



Frequency response KS22-U

TUVNORDGROUP

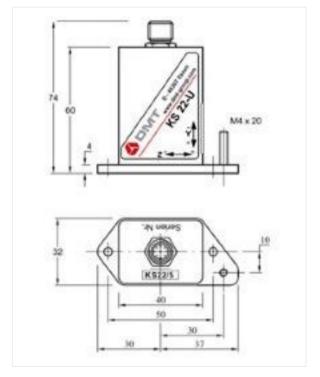
Technical Data			
Measuring axes	2	x/y	
Sensor constant	1	V/m/s²	
Measuring range	± 3	m/s²	
Supply consumption	18-26 (temporarily 30)	Volt DC	
Power consumption	10	mA	
Frequency range	0,01 5	Hz	
Attenuation at 10 Hz	>20	dB	
Chebyshev filter ( fourth order)	0,5	dB ripple	
Analog output / Zero position Output range	5 ±0,1 5 ± 3	V	
Setting time	30 ±	seconds	
Weight (without cable)	282	gram	
Connection Type: Connector SACC-E-M12MS-5CON-PG9/0,5	Axial 1671111	Phoenix	
Temperature range	-40° / +65°	°C	
Degree of protection	66	IP	
Output resistance	100	$\Omega$	
Dimensions	see drawing	see drawing	
Housing material	V2A high-grade steel	V2A high-grade steel	



## 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.



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

**DMT GmbH & Co. KG**Machine Diagnosis &
Geoinstruments

Am TÜV 1 45307 Essen, Germany

T +49 201 172-1441

E products@dmt-group.com dmt-group.com Disposal information::

Our products are subject to the WEEE directive. DMT has committed itself to take back all electrical and electronic components sold and to dispose of them professionally. Please contact: <a href="mailto:products@dmt-group.com">products@dmt-group.com</a>







 $\epsilon$