

Tower Vibration Sensors KS22-U and KS22-I by DMT ensure the Safety and Protection of Wind Turbines

Wind turbines are exposed to high strains such as vibrations. To avoid damage and expensive downtime, these vibrations must be safely monitored. Moreover, tower vibration monitoring is a requirement of policies such as the GL2010.

Exact information about the actual vibrations occurring also offers a good basis to optimize calculation methods for the construction of towers as regards the eigenfrequency and requirements thereof. Thus higher towers can be built more cheaply, and cost efficiency rises.

The compact sensors KS22-U and KS22-I measure the tower vibrations in two dimensions with a measuring range of ± 5 g and transmit the measured value as 5 ± 3 V or 4 ... 20 mA to the control system. Therefore the system can be shut down safely after exceedance of default limits. The sensors are also ideal for use in combination with WindSafe®, DMT's Condition Monitoring System for wind turbines, and can also be integrated into existing safety systems.

A robust and reliable sensor system is particularly important, especially in harsh environments. The tower vibration sensors of DMT provide the necessary features: robust housing, high protection class IP66 and a wide temperature range of -40°C to $+65^{\circ}\text{C}$.

Our tower vibration sensors are available as standard products as well as customized versions and with them we have been successfully ensuring the safe operation of our customers' wind turbines for many years.

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