

Kárahnjúkar Hydro Power Plant (Iceland)

On-line protection monitoring system (VM600, with CE and TQ sensors)

One source: Our customers prefer Vibro-Meter, because we design, manufacture and provide a complete solution with integrated monitoring systems and high-performance sensors.

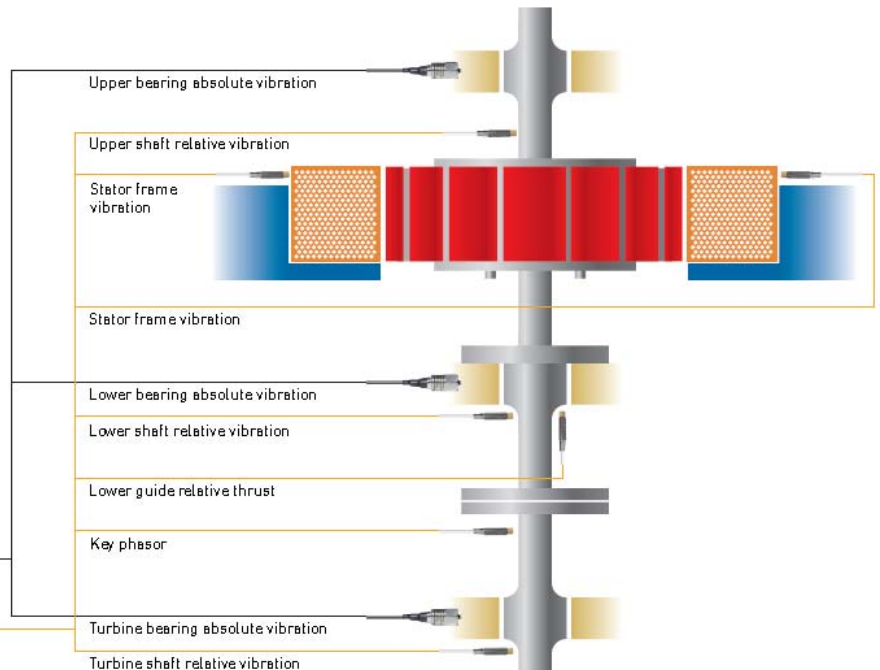
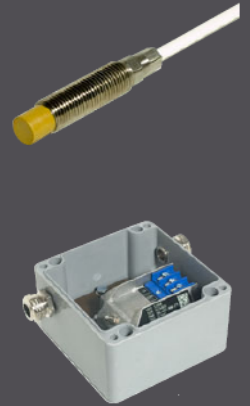
Measurements on non-rotating parts

CE 680 compact piezoelectric accelerometer is installed on bearings and machine frames. It has built-in electronics and 100 mV/g output.



Measurement on rotating shafts

TQ 402 eddy current probes are used for contactless measurement on shafts. API 670 standard and pressure-proof probes. 8 mV/um or 2.5 uA/um output, with IQS 450 conditioner electronics



VM600 monitoring system

One single expandable platform:

- VM 600 is easily expandable
- Truly integrates all protection, condition and performance monitoring functions
- Does not require additional internal wiring

One module does all:

A single MPC4 protection module can process all parameters:

- Vibration
- Velocity
- Displacement
- Temperature, etc...



The Project

- Landsvirkjun's Karahnjukar Hydro Power Plant is composed by three dams.
- Karahnjukar is the largest construction ever completed in Iceland.
- Electricity will be transmitted to the Fjarðaál aluminium smelter, on Iceland's east coast.
- Andritz VA TECH HYDRO provides six 115 MW Francis hydro turbines, generators & BOP.
- VM600 machine monitoring system continuously transmits protection data to Andritz VA TECH HYDRO's DIA TECH plant monitoring.

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