

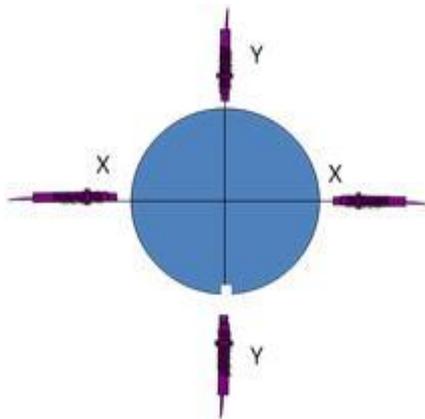


Monitoring task/machinery:

Generator cooling pump of a nuclear power plant

Sensors used:

- Four displacement sensors, each arranged as X/Y sensor pairs



- The two X and Y sensor pairs are measured separately on the shaft. That means one SM-610-A04 is required for each sensor pair.
- The X and the Y channel and the Smax measurements are monitored with a variable bandpass.
- The variable bandpass allows to ignore the higher harmonics, which are caused by a high-frequency RUNOUT part in the measurement signal.
- The measurement signals of X, Y and Smax are exported through the DC outputs (4 ... 20 mA).
- The sensors are doubly connected, once for the X and Y vibration measurements and in parallel to the Smax value through the two other channels.
- The Smax value will be monitored with limits, a limit violation will be signaled through relays.



Why choose Safety Monitor module SM-610-A04?

- This is the only module enabling measurement of an Smax value with variable bandpass
- Trigger input for 1st harmonics
- As the SM-610-A04 has six input channels, two channels are left over for further measurements even if you double the connection of the two sensors.
- The allocation of the DC outputs is freely configurable.
- The logic combination of the alarm signals is freely configurable.