

February 2000

Innovative Protection Monitoring for Small Hydro Turbine Generators

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Vibro-Meter has been selected to supply versatile single channel machinery protection monitors to ABB Alstom Power for hydropower machinery protection.

ABB Alstom Power is providing installations at Sengulam and Pallivasal in India, and Burrinjuck in Australia. A total of 43 channels of protection monitoring will be installed, providing early indication of incipient failure indicated by increasing vibration levels. High reliability and easy installation were major factors in choosing the Vibro-Meter solution, together with Vibro-Meter's proven track record in hydro installations.

Vibro-Meter will supply type CE 680 accelerometers, cabling and VMU 100 "VibroSmart" monitors. The advantages of the Vibro-Meter systems include:

- CE 680 accelerometer is double-shielded so can be used in high magnetic fields.
- CE 680 accelerometer has a high sensitivity of 100mV/g, and being shear mode can provide reliable data at very low frequencies, with no special cable requirements.
- The VMU 100 "VibroSmart" monitor has a rugged IP65 industrial enclosure, with a bright LED display of vibration velocity level (mm/s or ins/sec) and monitor status.
- The VMU 100 can be easily re-programmed for range, high/low alarm and trip levels, frequency range and delay/hysteresis settings, to adapt the protection to evolving experience.
- An optional serial data link permits remote configuration and data transfer of vibration levels for storage and trending, using RS 232 or MODBUS protocols. Configuration software is provided with the serial link option.
- Optional 4-20mA or 0-10V DC outputs for PLCs or plant management control systems.
- A buffered vibration acceleration BNC output is provided for analysers and data loggers.

Vibro-Meter has an extensive and successful history in hydropower and other critical applications for rotating machinery, and can provide solutions from low-cost single channel monitors up to full condition and performance monitoring systems covering multiple sites.

Vibro-Meter SA and Vibro-Meter, Inc. are part of Meggitt Aerospace Systems, a division of Meggitt PLC. Vibro-Meter manufactures systems, sensors, and equipment primarily for the aerospace and industrial industries. Meggitt PLC is traded on the London Stock Exchange.

PRESS RELEASE