**TMC3 Wind Turbine Controller**

The TMC3 controller was exclusively designed for medium sized wind turbines, typically from 10 kW up to 1 MW. Its **All In One** concept combines powerful control, supervision, communication and data logging. Different communication interfaces can be used for monitoring and setting parameters. **USB** and **Ethernet** (Modbus TCP) are supported.

A **removable display and control interface** enables the customer to access status information and manipulate parameters.

The controller offers a long time **logging function**, which saves periodically all relevant measured values to an attached standard **SD-memory card**.

The system can be extended with Orbital’s intelligent **8 Band OrbiVib vibration sensor**. With this, frequency selective vibration supervision and protection of the wind turbine is possible.

The modular construction of the TMC3 allows future extension with special functions.

**Optional extension cards are available:**
- 8 Analog Inputs / 8 Analog Outputs – 0-10V / 0-20 mA (Software selectable)
- Thyristor control for soft connect / Motor start of asynchronous generators.
- Permanent Magnet Generator control. (Under development)

Firmware can be downloaded via the **USB interface**.