

TwinCAT 3 Industry specific



TF8310 | TC3 Wind Framework

The TwinCAT 3 Wind Framework is based on the modular architecture of TwinCAT 3 and provides control technology and industry expertise in the form of encapsulated modules and an application template. TcCOM modules provide higher-level system services. The status module enables the monitoring of all components and includes error detection, event management, error handling and reporting. The parameter and command modules provide services for configuration and interaction with the system.

The acquisition of signals and their statistical analysis is supported by the capture and statistic module. The user module checks, manages and logs all interactions by the user. The recording of all events and signals as well as the saving and loading of the entire configuration are enabled by the database module, which is based on an SQL database.

The programming of the operational management using these services is simplified by a PLC library and a complete sample application. When using the TC3 Wind Framework, each subsystem of the wind turbine system (such as converters, pitch, etc.) is representing an individual module. Each subsystem module comes with a specific set of information and settings. These properties integrate themselves via specific objects from the framework into the higher-level services and operational management.

When replacing a subsystem module, the associated objects are automatically integrated into the services. In this way a group of objects is created that represent the complete system and enable the monitoring and parametrisation of the turbine. Nevertheless, these subsystem modules are self-contained and reusable in another operational management or test environment.

| | |
|-----------------------|----------------|
| Technical data | TF8310 |
| Required | TC1000 |
| Target system | Windows 7/8/10 |

| | |
|-----------------------------|---|
| Ordering information | |
| TF8310-0040 | TC3 Wind Framework, platform 40 (Performance) |
| TF8310-0050 | TC3 Wind Framework, platform 50 (Performance Plus) |
| TF8310-0060 | TC3 Wind Framework, platform 60 (Mid Performance) |
| TF8310-0070 | TC3 Wind Framework, platform 70 (High Performance) |
| TF8310-0080 | TC3 Wind Framework, platform 80 (Very High Performance) |
| TF8310-0081 | TC3 Wind Framework, platform 81 (Many-core 5...8 cores) |
| TF8310-0082 | TC3 Wind Framework, platform 82 (Many-core 9...16 cores) |
| TF8310-0083 | TC3 Wind Framework, platform 83 (Many-core 17...32 cores) |
| TF8310-0084 | TC3 Wind Framework, platform 84 (Many-core 33...64 cores) |