



i TE3500 | TC3 Analytics Workbench

The Analytics Workbench is the centrepiece of the TwinCAT 3 Analytics product family. With the Analytics Workbench a system for online and offline analyses for one or more machines can be set up.

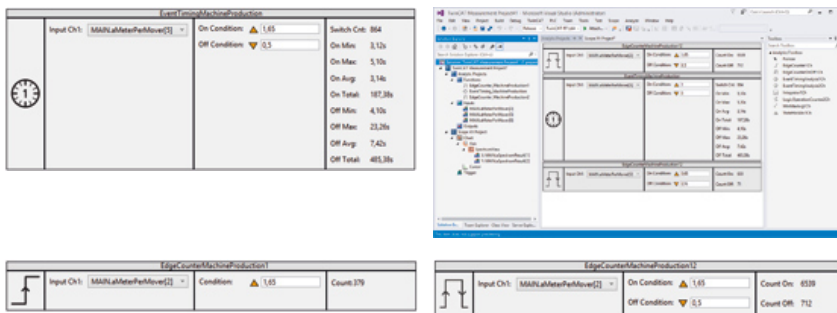
The basic Analytics Workbench consists of:

- TwinCAT PLC runtime environment
- Analytics PLC library
- IoT communication environment for data streaming
- Analytics Configurator in Microsoft Visual Studio®
- professional license for TwinCAT Scope Views

The basic package can be expanded with C/C++ and MATLAB®/Simulink® for enhancing your own Analytics application via Mathworks toolboxes for machine learning and optimisation.

With the TwinCAT PLC runtime own algorithms for analysing a machine can be written. Existing code can be reused without modification. Another benefit: machine manufacturers who have implemented their machine application with TwinCAT do not need any new tools to run analyses. In addition, no special training is needed, because the programming is done in the same development environment with Visual Studio®.

With the TwinCAT 3 Analytics Configurator you can comfortably sift through the data as it is cyclically acquired by the TwinCAT 3 Analytics Logger. Many different variables can be selected from a large data package in order to graphically display them, for example, with a “post-scope configuration” in Scope View Professional. The configurator also provides some algorithms from the Analytics PLC library for examining the data offline for limit values or performing a runtime analysis of machine cycles. The total running time of a machine cycle – the shortest, the longest, and the average running time – can be determined with ease. The determination and monitoring of energy requirements can be used as further analysis criteria. The results can be displayed on dashboards produced with TC3 HMI.



Technical data	TE3500
Required	TC1000
Target system	Windows 7/8/10

Ordering information	
TE3500	TC3 Analytics Workbench
TF3560	TC3 Analytics Controller Pack 4
TF3561	TC3 Analytics Controller Pack 8
TF3562	TC3 Analytics Controller Pack 16
TF3563	TC3 Analytics Controller Pack 32
TF3564	TC3 Analytics Controller Pack 64
TF3565	TC3 Analytics Controller Pack 128

