

METTLER TOLEDO FBRM® D600 Driver/Interface

This document describes the driver/interface for the METTLER TOLEDO FBRM® D600 series process analyzers.

Product Description

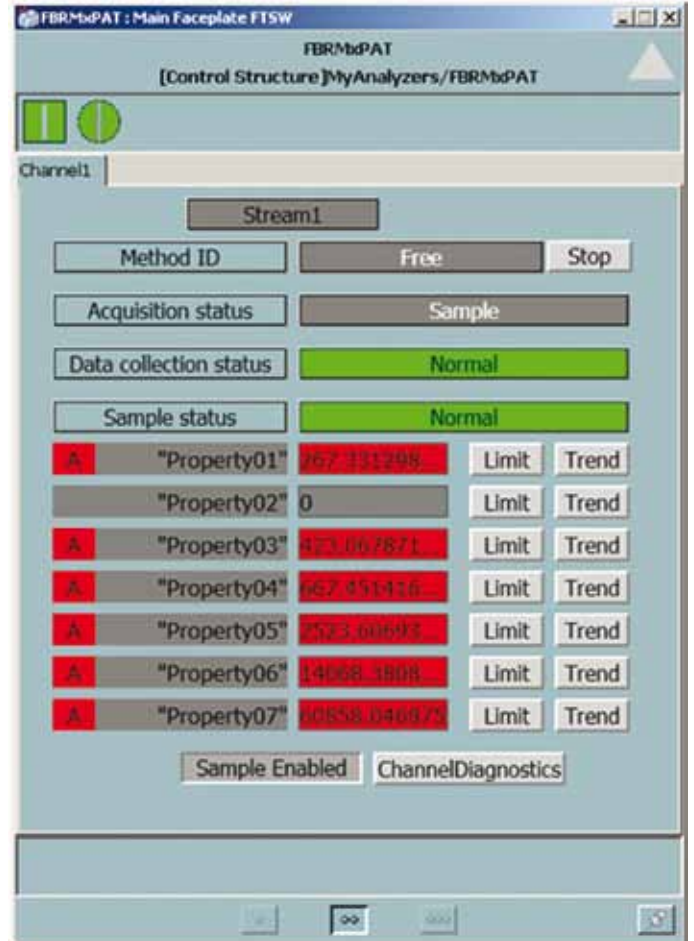
The interface provides data collection and partial control of instrument parameters from xPAT. This allows acquisition of particle size histograms and associated statistics.

The D600 series shares a common hardware platform with different probe options. At this time the interface supports a maximum of 1 concurrent probe. The models supported are D600L, R, S, T, P and X, the S400E probe is also supported on the D600L.

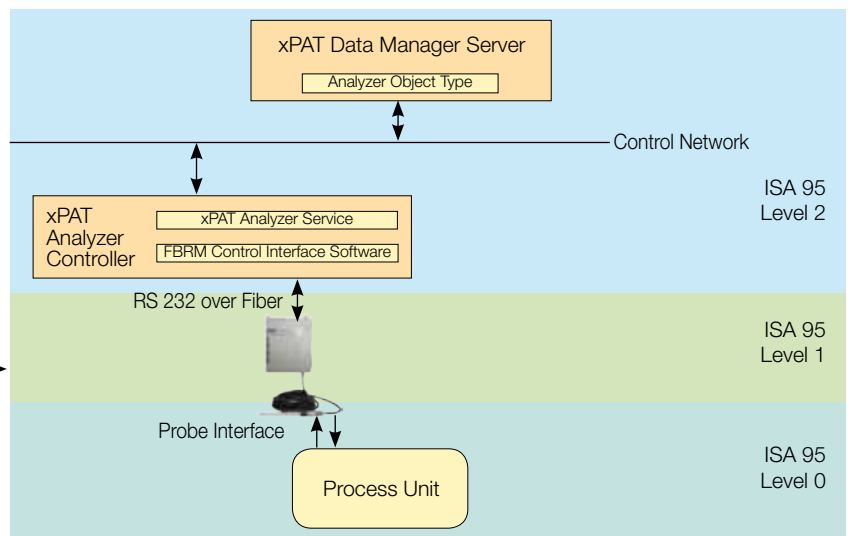
The software interface is made up of the FBRM® Control Interface that allows acquisition of particle size distribution histograms, the xPAT analyzer service, the xPAT configuration template for FBRM® and the xPAT object type for FBRM®.

The instrument calibration, setting of control parameters and setup of statistical calculations must be done in the FBRM® Control Interface. Once this setup is completed the xPAT analyzer controller can interface with the FBRM® Control Interface to collect the particle size distributions and statistics computed from them.

Manual control and status display of the analyzer is provided by a standard faceplate associated with each instance of the analyzer on the xPAT workplace.



METTLER TOLEDO FBRM® D600 Analyzer



Specifications

Analyzer Class	Particle size analyzer
Subclass	Focused Beam Reflectance Measurement (FBRM®)
Interface	RS232 over fiber
Compatibility	All METTLER TOLEDO D600 series analyzers running METTLER TOLEDO FBRM® Control Interface Software v6.7.0
Throughput	Max 1 sample every 5 seconds
Histogram Size	1324 points
Control Parameters	Access to control parameters through METTLER TOLEDO FBRM® Control Interface
Channels	1 Channel
Scan Speed	Set in METTLER TOLEDO FBRM® Control Interface, can be 2, 4, 6, 8 ms
Averaging Time	Time in seconds to average the signal for each sample measurement Default 30secs
Internal Settings	Additional internal settings are available in the METTLER TOLEDO FBRM® Control Interface, see METTLER TOLEDO FBRM® documentation
Signal Processing Parameters	Settings for signal processing of raw data
Statistics	Configure 7 statistics to be calculated by the METTLER TOLEDO FBRM® Control Interface
Faceplate Status Indicators – analyzer	
Connection Status	Status of link to analyzer: good or bad
Analyzer Status	Status of analyzer: good or bad
Faceplate Status Indicators per channel	
Acquisition Status	Idle, Sample starting, Sample
Data Collection Status	Normal, Maintenance, Fault
Faceplate Commands per channel	Collect Sample
Control Type	xPAT provides start/stop signal
Data Acquisition	Collect Histogram and 7 Statistics for each sample
Data Analysis	Seven statistics on the Histogram calculated and collected by the METTLER TOLEDO FBRM® Control Interface. Additional statistics can be computed with xPAT equations
Calibration	Performed offline with METTLER TOLEDO FBRM® Control Interface
Validation	Operational Qualification (OQ) of analyzer supported, requires measurement of sample with known particle size distribution. Performance Qualification (PQ) implemented by method specific configuration.
Health Monitoring	Not implemented
Asset Management	Not implemented

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For more information about about this analyzer please visit www.mt.com/particle. For more information on ABB Life Sciences solutions visit www.abb.com/lifesciences.

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