



Introduction of e-F@ctory Support Module

The e-F@ctory Support Module is an example of a project that enables easy analysis of equipment information integrated in the programmable controller, and displays the analysis result on the GOT. It eliminates the necessity to create complicated analysis algorithms and draw graphs, and easily realizes the equipment operation monitoring system at a low cost.

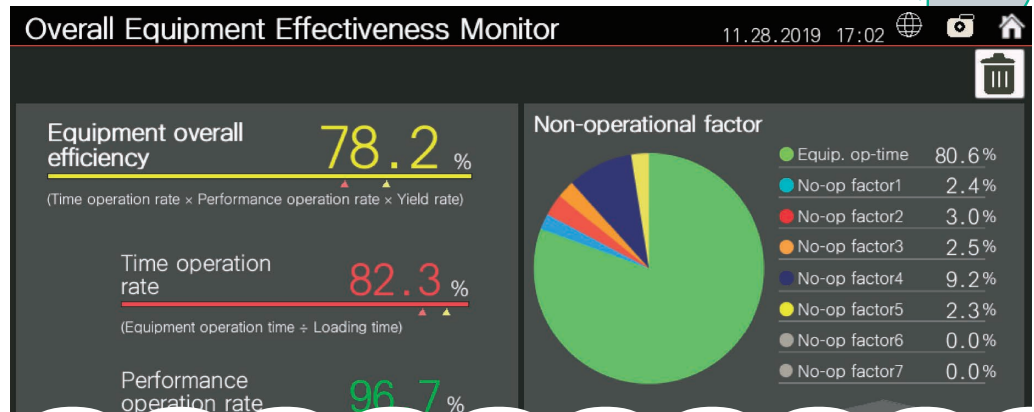
We offer the project data for MELSEC iQ-F series*1 and GOT2000 series*2 free of charge! Please contact your local Mitsubishi Electric sales office or representative.

Easily introducing IoT through visualization and problem identification!

Monitors the operation status of equipment, and displays it in a way easy to understand at a glance!

Overall Equipment Effectiveness Monitor

The defective product occurrence rate and equipment suspension rate are visualized. Problems can be identified, and the situation can be improved.



Achieving easy analysis through data collection and visualization!

Monitors the equipment operation time!

Cylinder & cycle time Measurement Monitor

The alarm occurrence status and whether the operation time does not exceed the threshold can be visualized. The maintenance timing can be detected before the production efficiency decreases, and preventive maintenance can be realized.

No.	Status	Name	Measured value [ms]		Threshold [ms]			Result	
			Measured value	Max. value / Min. value	1-level min. / 2-level min.	Master time	1-level max. / 2-level max.	Accumulated time [sec]	Accumulated count [times]
1	●	Cylinder 01 (1)Fwd (2)Rtn	4252	5452 / 4417	4500 / 4000	5000	5500 / 6500	1247	238
2	●	Cylinder 02 (1)Fwd (2)Rtn	5246	5451 / 4417	4500 / 4000	5000	5500 / 6500	1244	252

Realizing predictive maintenance with MELSEC iQ-F!

Detects the deviation of equipment from the normal state!

MT Method

- Multiple items (such as current, voltage, and temperature) are analyzed, and the deviation from the normal (average) state is expressed in a single value.
- Errors that occur for the first time can be also detected because the criteria are created from data in the normal state.

The MT method is a multi-variable analysis technique that applies the Mahalanobis distance used in statistical analysis. It is often used for error prediction.

POINT

- Supports introduction of IoT on production sites using programmable controllers and GOTs.
- Offers projects for sequence programs and drawing data as "e-F@ctory Support Module".
- Easily realizes IoT just by basic setting including parameter setting.

*1: Supported by FX5U/FX5UC CPU module Ver. 1.100 or later, and product number 17X**** (product number 178**** for FX5UC-32MT/DS-TS and FX5UC-32MT/DSS-TS) or later.
 *2: Recommended models: GOT2000 series [Resolution: SVGA (800 × 600 dots)]



Introduction of Predefined Protocol Support FB* and Tool For Positioning

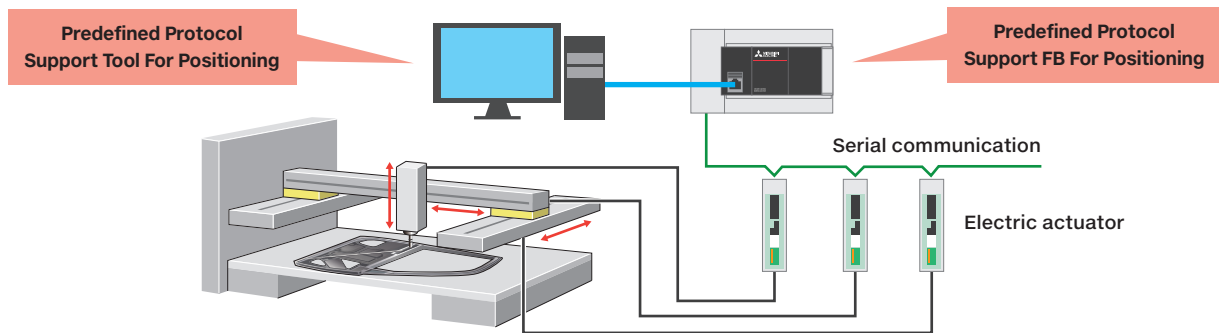
To be supported soon

- (1) Predefined Protocol Support FB For Positioning: Can control data set in the Predefined Protocol Support Tool For Positioning from programs.
- (2) Predefined Protocol Support Tool For Positioning: Can create positioning control data for an electric actuator connected through serial communication without concerning a communication protocol, and can execute tests of positioning data to achieve early startup of the system.

*: Function block

1 Reduces the programming man-hours using the Predefined Protocol Support FB For Positioning!

You can easily make programs using the Predefined Protocol Support Tool For Positioning and its dedicated FB.



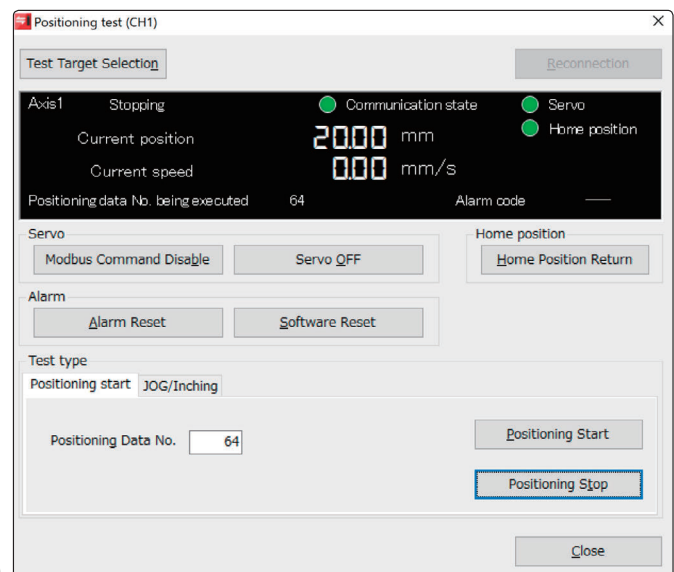
2 Enables positioning tests without programs!

Operations such as positioning and JOG can be performed with simple operations. The device operating status can be visualized on the screen of the tool and significantly improves the debugging efficiency.

A positioning test function adjusts positioning operation while monitoring the operation of an electric actuator.



Predefined Protocol Support Tool For Positioning (Positioning test screen)



Please contact your local Mitsubishi Electric sales office or representative for more information.

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