



CMSSTD – Condition Monitoring System Standard Software

The M200 automation system's modules offer a vibration monitoring solution that can be fully integrated with the control system.

The CMSSTD software application developed for the Bachmann automation system covers the complete processing of measurement data, from data acquisition and analysis to the automatic, encrypted data transmission to the WebLog Server.

The CMSSTD web interface is used to commission the CMS. The status, test measurements and reporting are available via this interface both on-site and via remote access for service.

In addition, CMSSTD offers a number of optional extensions, so-called plugins:

- **Event Recorder**
The Event Recorder can be used to save measurement data from the ring buffer at an event for detailed analysis. The Event Recorder can also access data before the event trigger. The recording is triggered by a status variable, which allows the use on the controller as well as by external signals.
- **Structural Health Monitoring (CMSSHM)**
This plugin provides the complete range for monitoring of structures. The measurement data, typically continuously recorded with the GIO212 module, are analyzed by CMSSHM and then automatically transferred to the WebLog Server. Detailed information can be found in the *CMSSHM* data sheet.
- **Blade Unbalance Calculator**
The Blade Unbalance Calculator – a plugin for the CMSSTD software from Bachmann Monitoring – allows the calculation of the mechanical rotor blade unbalance. Detailed information can be found in the *Blade Unbalance Calculator* data sheet.

As of version 2.0, CMSSTD, as well as the associated plugins, are licensed products for which runtime licenses are required. The software can be used with the AIC modules as well as with the GIO212 module.

Part Type Designation	Part Number
SW CMSSTD Download	00032041-00
CMSSTD + GIO Runtime License	00032042-63
CMSSTD + AIC Runtime License	00032043-63
Event Recorder Plugin Runtime License	00033244-63
Structural Health Monitoring Plugin (CMSSHM) Runtime License	00032049-63
Blade Unbalance Calculator Plugin Runtime License	00032047-63

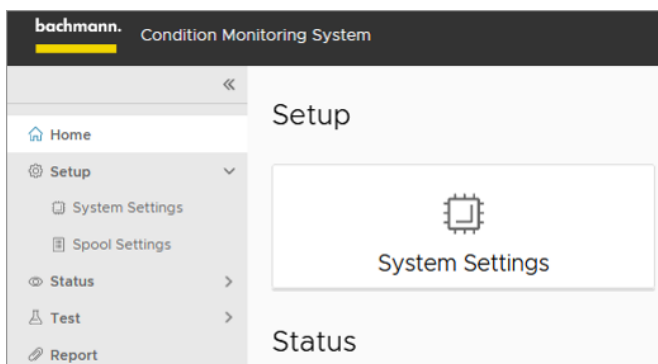


Fig. 1: CMSSTD commissioning page

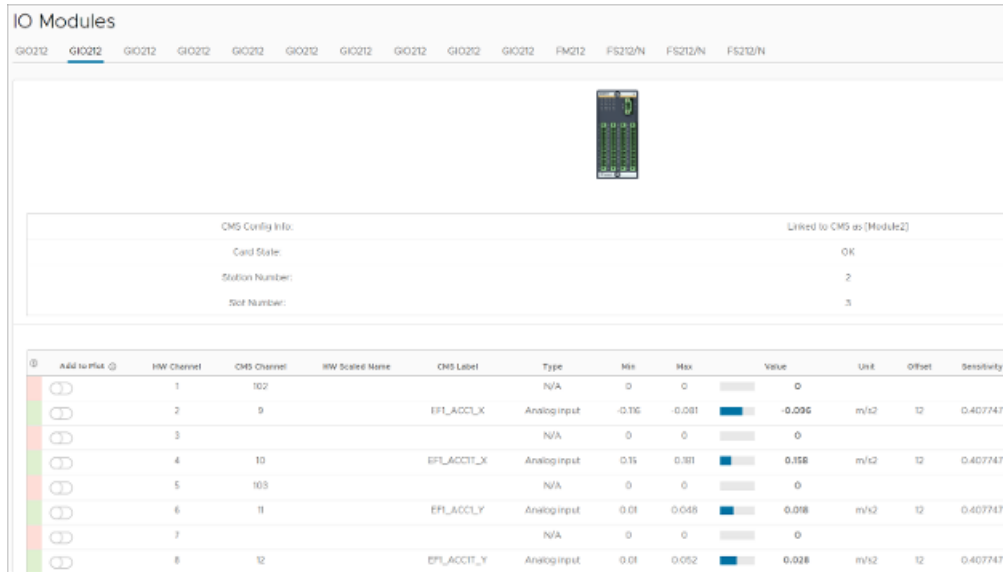


Fig. 2: The "IO Modules" overview shows all installed hardware modules

CMSSTD

Requirements M200 controller	
Processor module	MX-, MC-, MH series
Memory	Minimum of 256 MB RAM and 100 MB CFC/CFast or 64 MB File-Flash
Requirements software	
Controller software	M-Base V3.95 and higher
Core	MxCCore or MCCore
Hardware modules	At least one of AIC212, AIC206, AIC214, GIO212
Time Base	Enabled SNTP client
PC SolutionCenter version	V1.95 or higher
	Header files for C/C++ required
Communication	https or ftps to server for data transfer and update
Required web browser for Web GUI	See release notes