

# WMF Weigh Modules



**METTLER TOLEDO**

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## 1 Introduction

This firmware release chart describes the changes in the firmware for WMF weigh modules. For more information about the MT-SICS Commands use MT-SICS Manual (Document: 11781363).

## 2 Supplier Declaration

METTLER TOLEDO is certified according to ISO 9001. All products of the METTLER TOLEDO business unit "OEM" are developed and manufactured based on the internationally recognized ISO 9001 quality system.

- The firmware is developed based on a life cycle model, using defined documentation, programming and test guidelines.
- All suppliers of system components must be formally assessed. Obviously standard products are an exception.
- The individual phases of the life cycle model and their working results are subject to a formal review (milestones).
- All documents and approved system components are subject to the modification check.

The application software of the WMF lines is located in the FlashROM on the main board of every weigh module. The user cannot access the FlashROM if the intended use is adhered to.

Metrological relevant data are stored separately in the EEPROM. Thus it is ensured that these data could by no means be altered intentionally or unintentionally if an update of the software is initialized.

We confirm that the METTLER TOLEDO WMF lines are developed and tested according to the above described product life cycle model. We would categorize the application and terminal software as GAMP4 software category 2 "firmware".

The design validation is carried out according to company specific guidelines for the product and software development process. The respective reports of these processes and continuative documentation as for example source codes could be disclosed based on an individual agreement (supplier audit).

### 3 History of changes

**NOTE:**

- Firmware upgrades do not require a data reset (customer data is preserved).
- Firmware downgrades require a subsequent data reset to work correctly in all cases (MT-SICS: FSET 1).

Firmware Version	Date	Release Type	Description	EDS-File (EtherNet/IP)	Custom AOP (EtherNet/IP)	GSDML-File (Profinet)	TDNR <sup>1</sup> update necessary
3.0.6	2022/06/14	Bug fix	Cyclic SAI Data Improvement  (updated data handling on cyclic SAI communication will fix 0x8004 return to PLC)	No changes	No changes	No changes	no
3.0.5	2022/02/23	Bug fix	Signal processing library update.  (Bugfix to immediately apply the corresponding time parameter of the stability criteria in all cases)	No changes	No changes	No changes	no
3.0.2	2021/02/05	Product enhancement	<p><b>MT-SICS</b></p> <p>New commands implemented:</p> <ul style="list-style-type: none"> <li>- DAT1</li> <li>- E02</li> <li>- E03</li> <li>- M110 (TDNR dependency)</li> <li>- M117</li> </ul> <p><b>SAI</b></p> <ul style="list-style-type: none"> <li>- USTB 3 functionality (read/write) implemented. ("Report Adjustment Stability time" and "Report Adjustment Stability digit [d]")</li> <li>- Device serial number (read) implemented</li> </ul> <p><b>LEDs</b></p> <ul style="list-style-type: none"> <li>- Updated LED blinking patterns</li> </ul> <p><b>Web Interface</b></p> <ul style="list-style-type: none"> <li>- Error page added</li> <li>- Minor changes on main page</li> </ul> <p><b>Others</b></p> <ul style="list-style-type: none"> <li>- Hardware reset via magnetic switch now identical to FSET 1 (user adjustments are also reset)</li> <li>- Lower limit for external adjustment weight implemented (TDNR dependencies).</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>- In case of errors after update (Status LED not green), perform a factory reset.</li> </ul>	No new EDS files available	Not implemented	No new GSDML file available	For full functionality, a new TDNR is needed

<sup>1</sup> For TDNR (type definition number) update, please contact your METTLER TOLEDO service technician.

# Firmware Release Chart

Firmware Version	Date	Release Type	Description	EDS-File (EtherNet/IP)	Custom AOP (EtherNet/IP)	GSDML-File (Profinet)	TDNR <sup>1</sup> update necessary
2.0.0	2019/05/06	Product enhancement	<p><b>MT-SICS</b>            new commands implemented:</p> <ul style="list-style-type: none"> <li>- FCUT2</li> <li>- M111</li> <li>- M116</li> <li>- SIX1</li> </ul> <p>Enhanced commands:</p> <ul style="list-style-type: none"> <li>- M02 environmental setting 'very stable' changed</li> <li>- USTB 3 stability criteria for adjustment added</li> </ul> <p><b>SAI</b>            New function added:</p> <ul style="list-style-type: none"> <li>- SAI 8-block format (Fast Weight Update Channel)</li> </ul> <p>Note:</p> <ul style="list-style-type: none"> <li>- Version is fully backwards compatible</li> <li>- WMF modules with older firmware versions can be updated</li> </ul>	V1.3_181029 (8-block SAI format) V1.0_160329 (2-block SAI format)	Not implemented	V2.35_20190109 (2-block and 8-block SAI format)	no
1.0.2	2017/07/26	Bug Fix	<p><b>SAI</b></p> <ul style="list-style-type: none"> <li>- User initial (standard) adjustment is enabled in SAI command set</li> </ul>	V1.0_160329	V1.20	V2.32_20160329	no
1.0.1	2016/06/29	Product enhancement	<p><b>SAI</b>            New function added:</p> <ul style="list-style-type: none"> <li>- Integrated SAI cyclic commands for M67 and USTB</li> </ul>				no
		Bug Fix	Fixed issue that unit on weight website always shows unit gram				
1.0.0	2016/03/29	-	Initial version				no

## 4 Disclaimer

The information contained in this document has been collected to the best of our knowledge and represents the latest update. In addition, Mettler-Toledo AG will in no event be liable for consequences of any kind arising out of, or in connection with, the use of the downloadable software e-loader or this document.

[www.mt.com/wmf](http://www.mt.com/wmf)

For more information

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Subject to technical changes

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