Firmware Release Chart

SPC Weight Sensor

METTLER TOLEDO

Content

1 Introduction

This firmware release chart describes the changes in the firmware for SPC Weight Sensor. 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 SPC Weight Sensor is located in the FlashROM on the main board of every electronic unit. 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 SPC Weight Sensor 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[1] update necessary
3.0.4	2022/02/21	Product enhancement	**MT-SICS** New commands implemented: - FCUT2 - M118 Enhanced commands: - M21 (added parameter 1 and 2, which are needed for SAI) **SAI** - Industrial Ethernet protocols implemented (PROFINET, Ethernet/IP) **Others** - Signal processing library update. (Bugfix to immediately apply the corresponding time parameter of the stability criteria in all cases)	V1.0_20211222	V1.01.xx	V2.35-MT-SPC-20211222	no
3.0.3	2021/02/11	Product enhancement	**MT-SICS** New commands implemented: - E02 - E03 **Web Interface** - Error page added - Minor changes on main page **Others** - Lower limit for external adjustment weight implemented. **Note** - In case of errors after update (Status LED not green), perform a factory reset.	No Industrial Ethernet	No Industrial Ethernet	No Industrial Ethernet	no

[1] For TDNR (type definition number) update, please contact your METTLER TOLEDO service technician.

Firmware Version	Date	Release Type	Description	EDS-File (EtherNet/IP)	Custom AOP (EtherNet/IP)	GSDML-File (Profinet)	TDNR[1] update necessary
3.0.1	2020/11/04	Bug fix	Bug fix for Mettler-Toledo internal production. - No effect on any customer command or customer visible behavior. Details: - The code-segment with the bugfix is only active when the weight sensor is in **production/service mode** and the Network stack is being updated. - In **user-mode**, the changed code is never active.	No Industrial Ethernet	No Industrial Ethernet	No Industrial Ethernet	no
3.0.0	2020/08/17	Initial release	First official release	No Industrial Ethernet	No Industrial Ethernet	No Industrial Ethernet	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/SPC

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