

SLL210 AnyLevel™

Gravimetric Level Detection



METTLER TOLEDO

© METTLER TOLEDO 2026

No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose without the express written permission of METTLER TOLEDO.

U.S. Government Restricted Rights: This documentation is furnished with Restricted Rights.

Copyright 2026 METTLER TOLEDO. This documentation contains proprietary information of METTLER TOLEDO. It may not be copied in whole or in part without the express written consent of METTLER TOLEDO.

COPYRIGHT

METTLER TOLEDO® is a registered trademark of Mettler-Toledo, LLC. All other brand or product names are trademarks or registered trademarks of their respective companies.

METTLER TOLEDO RESERVES THE RIGHT TO MAKE REFINEMENTS OR CHANGES WITHOUT NOTICE.

FCC Notice

This device complies with Part 15 of the FCC Rules and the Radio Interference Requirements of the Canadian Department of Communications. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her expense.

■ Declaration of Conformity is available at <http://glo.mt.com/global/en/home/search/compliance.html/compliance/>.

IO-Link is an industrial communications networking standard (IEC 61131-9) managed by the industry association Profibus and Profinet International.

Table of Contents

1	Introduction.....	4
2	Supplier Declaration	4
3	History of Changes.....	4
3.1	Firmware update – IO-Link.....	4
3.1.1	Introduction – IO-Link	4
3.1.2	Firmware update SLL210-IO-Link.....	5
3.1.3	Firmware update ACS210-IO-Link	5
3.2	Firmware update – 4-20 mA HART	6
3.2.1	Introduction – 4-20 mA HART	6
3.2.2	Firmware update SLL210 - 4-20 mA HART and SLL210 - 4-20 mA.....	6
3.2.3	Firmware update SLL210 - 4-20 mA HART and SLL210 - 4-20 mA.....	6
4	Disclaimer	6

1 Introduction

This document describes the changes in the firmware for the SLL210 AnyLevel™ gravimetric level sensors.

- More information about PLC Communication, Data Structure and IODD file description for SLL210 AnyLevel™ is available in the SLL210 Installation and Service Manual on the [SLL210 Product download page](#).

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 software 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.

3 History of Changes

3.1 Firmware update – IO-Link

3.1.1 Introduction – IO-Link

IO-Link is a serial, bi-directional point-to-point connection for signal transmission and energy supply. IO-Link sensors are connected to an IO-Link Master unit (not provided by METTLER TOLEDO) which is then connected to any fieldbus or backplane bus system. IO-Link sensors can be used practically in any automation control system.

The sensors parameters can be configured via a software interface. The IO Device Description files (IODD file) enable plug-and-work functionality by providing all necessary device information for automatic configuration of the device by higher-level systems or controllers. This gives also the ability to add new devices to an existing system without significant changes to the overall architecture. The IODD file provides a comprehensive standardized description of device identification (e.g. manufacturer, type, serial number), configurable parameters, process data (measurements and control signals), diagnostic data, and communication characteristics (data rate and format). The Data Structure and the process parameters are explained in detail by the SLL210 Installation and Service Manual.

The link to the Installation and Service Manual and the IODD file of the SLL210-IOL sensor can be found on the [SLL210 Product download page](#).

3.1.2 Firmware update SLL210-IO-Link

Date	Topic	Description	Device ID	IO-Link Rev.	IODD Version	Firmware Version
2025/04/21	Feature	Modify maximum number of sensor in daisy chain to 12 with ACS210	All	1.1	1.1.4	30832616E 1.0.6
2025/03/21	Feature	Modify the lower measurement limit from 0 to -0.2*Rated Capacity to support zero setting when the system weight is negative.	All	1.1	1.1.4	30832616D 1.0.5
	Feature	Additional system commands for system adjustment to set the upper level value in percentage (command 164), weight (command 165), or volume (command 166). The first step is writing the value; the second step is triggering the procedure by system command.				
	Bug-fix	Fixed setting upper range failing issues when zero value is negative.				
	Bug-fix	IO-Link adaption for IFM IO-Link master and Rockwell 5000 series PLC.				
2024/05/09	Feature	Initial Version	All	1.1	1.1.0	30832616B 1.0.1

3.1.3 Firmware update ACS210-IO-Link

Date	Topic	Description	Device ID	IO-Link Rev.	IODD Version	Firmware Version
2025/04/21	Feature	Initial Version	All	1.1	1.1.4	30842756B 1.0.6

3.2 Firmware update – 4-20 mA HART

3.2.1 Introduction – 4-20 mA HART

The 4-20 mA analog HART is a bi-directional communication protocol that provides data access between intelligent field instruments and host systems. The sensors parameters can be configured via a software interface. Device Description files (DD file) enable plug-and-work functionality by providing all necessary device information for automatic configuration of the device by higher-level systems or controllers. This gives also the ability to add new devices to an existing system without significant changes to the overall architecture. The DD file provides a comprehensive standardized description of device identification (e.g. manufacturer, type, serial number), configurable parameters, process data (measurements and control signals), diagnostic data, and communication characteristics (data rate and format). The Data Structure and the process parameters are explained in detail in the SLL210 Installation and Service Manual.

The link to the Installation and Service Manual and the DD file of the SLL210-AH sensor can be found on the [SLL210 Product download page](#).

3.2.2 Firmware update SLL210 - 4-20 mA HART and SLL210 - 4-20 mA

Date	Topic	Description	Device Type	HART Rev.	DD Version	Firmware Version
2025/04/21	Feature	Modify maximum number of sensors in daisy chain to 12 with ACS210	0x8e6f SLL210_AH	7.7	01.01.00	30762249E 1.0.3
2024/10/21	Feature	Modify the lower measurement limit from 0 to -0.2*Rated Capacity to support zero setting when the system weight is negative.	0x8e6f SLL210_AH	7.7	01.01.00	30762249D 1.0.2
2024/05/09	Feature	Initial Version	0x8e6f SLL210_AH	7.7	01.01.00	30762249C 1.0.1

3.2.3 Firmware update ACS210 - 4-20 mA HART and ACS210 - 4-20 mA

Date	Topic	Description	Device Type	HART Rev.	DD Version	Firmware Version
2025/04/21	Feature	Initial Version	0x8e6f SLL210_AH	7.7	01.01.00	30842754 B 1.0.3

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 will in no event be liable for consequences of any kind arising out of, or in connection with, the use of the downloadable software or this document.

METTLER TOLEDO Service

To protect your METTLER TOLEDO products's future:

METTLER TOLEDO Service assures the quality, measuring accuracy and preservation of value of all METTLER TOLEDO products for years to come.

Please send for full details about our attractive terms of service.

Thank you.