

SLP33xD-IOL / SWP331D-IOL

Smart Single-Point Load Cell / Weighing Sensor



METTLER TOLEDO

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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.

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1 Introduction

This document describes the changes in the firmware for the SLP33xD-IOL / SWP331D-IOL Smart Single-Point Load Cell / Weighing Sensor.

- More information about PLC Communication, Data Structure and IODD file description for SLP33xD-IOL / SWP331D-IOL Smart Single-Point Load Cell / Weighing Sensor is available in the Installation Manual on the [SLP33xD-IOL 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. 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 SLP33xD – SWP3321D Installation Manual.

The link to the Installation and Service Manual and the IODD file of the SLP33xD-IOL / SWP331D-IOL Smart Single-Point Load Cell / Weighing Sensor can be found on the [SLP33xD-IOL Product download page](#).

3.2. SLP33xD Firmware release history

Date	Topic	Description	Device ID	IO-Link Rev.	IODD Version	Firmware Version
2026/06/03	Feature	IODD file update with PDOOut information.	All	1.1	1.2.1	30684325E 1.2.2
	Feature	Startup zero is based on production zero.				
2026/01/16	Feature	SAI related functions, and IODD supports the initialization zero in dynamic mode.	All	1.1	1.2.0	30684325E 1.2.2
	Feature	Update of Smart Diagnostic Platform (SDP) library to support dynamic overload events.				
	Bug-fix	Fixed abnormal initialization zero issue in dynamic mode.				
2025/03/24	Feature	Update of IODD of SLP331D, addition of SWP331D-IOL Product Id. SLP332D and SLP333D are not modified.	330010, 330020	1.1	1.1.1	30684325B 1.1.8
2023/05/06	Feature	Initial version.	All	1.1	1.1.0	30684325B 1.1.8

3.3. SWP331D Firmware update

Date	Topic	Description	Device ID	IO-Link Rev.	IODD Version	Firmware Version
2026/06/03	Feature	IODD file update with PDOOut information.	All	1.1	1.2.1	30684325E 1.2.2
	Feature	Startup zero is based on production zero.				
2025/04/01	Feature	SAI related functions, and IODD supports the initialization zero in dynamic mode.	All	1.1	1.2.0	30684325E 1.2.2
	Feature	Update of Smart Diagnostic Platform (SDP) library. Update of SDP function block 1003 and 1005 to support dynamic overload.				
	Feature	Configuration file changed, modification of the default displayed readability (d) and related parameters (stable, zero track, XP0339, XM1903 1005, stable drift).				
	Bug-fix	Fixed abnormal initialization zero issue in dynamic mode.				
2025/03/24	Feature	Initial version.	All	1.1	1.1.1	31050336A 1.1.9

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 product's future:

Congratulations on choosing the quality and precision of METTLER TOLEDO. Proper use according to these instructions and regular calibration and maintenance by our factory-trained service team ensure dependable and accurate operation, protecting your investment. Contact us about a service agreement tailored to your needs and budget.

We invite you to register your product at www.mt.com/productregistration so we can contact you about enhancements, updates and important notifications concerning your product.

www.mt.com/slp33xD

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