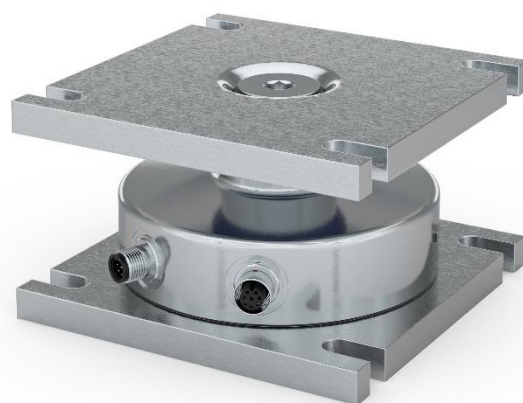


SLL210 AnyLevel™

Gravimetric Level Detection



METTLER TOLEDO

SLL210 AnyLevel™ Detection System

METTLER TOLEDO Service

Essential Services for Dependable Performance of Your SLL210 AnyLevel™ Detection System.

Congratulations on choosing the quality and precision of METTLER TOLEDO. Proper use of your new equipment according to this manual and regular calibration and maintenance by our factory-trained service team ensures reliable and accurate operation, protecting your investment. Contact us for a service agreement tailored to your needs and budget. Further information is available at www.mt.com/service.

There are several important ways to ensure you maximize the performance of your investment:

1. Register your product: 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.
2. Contact METTLER TOLEDO for service: The value of a measurement is proportional to its accuracy – an out of specification scale can diminish quality, reduce profits and increase liability. Regular service from METTLER TOLEDO will ensure accuracy and optimize uptime and equipment life.
 - a. Installation, Configuration, Integration and Training: Our service representatives are factory-trained, weighing equipment experts. We ensure that your weighing equipment is ready for production in a cost effective and timely fashion and that the operating staff is trained for success.
 - b. Initial Calibration Documentation: The installation environment and application requirements are unique for every industrial scale so performance must be tested and certified. To ensure production quality and provide a quality system record of performance we provide a calibration service. The accuracy is documented in the calibration certification documents.
 - c. Periodic Calibration Maintenance: A Calibration Service Agreement provides on-going confidence in your weighing process and documentation of compliance with requirements. We offer a variety of service plans that are scheduled to meet your needs and designed to fit your budget.

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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.

Disclaimer

This hazardous instruction manual is provided solely as guide for individuals who have received technical training and are familiar with the technical manuals of the METTLER TOLEDO products.

If you cannot find the information you are looking for, please contact METTLER TOLEDO Service.

METTLER TOLEDO reserves the right to make Revisions without notice. Subject to technical changes.

Further documents

In addition to this hazardous instruction manual, more information is available in the following documents which can be downloaded from ► www.mt.com/ind-downloads-sll210.

- SLL210 AnyLevel™ User Manual
- SLL210 AnyLevel™ Product Brochure
- SLL210 AnyLevel™ Installation Video
- SLL210 AnyLevel™ Hazardous Certifications
- WMS Handbook (tips and tricks for the storage tank design)



Warnings and Cautions

READ this manual BEFORE operating or servicing this equipment.

FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

CALL METTLER TOLEDO for parts, information, and service.

	 WARNING
	METTLER TOLEDO ASSUMES NO RESPONSIBILITY FOR CORRECT INSTALLATION OF THIS EQUIPMENT WITHIN A ZONE 2 / ZONE 22 / DIVISION 2 AREA. THE INSTALLER MUST BE FAMILIAR WITH ALL ZONE 2 / ZONE 22 / DIVISION 2 WIRING AND INSTALLATION REQUIREMENTS.
	 WARNING
	DO NOT USE THE SLL210 ANYLEVEL SENSOR WITHIN AREAS CLASSIFIED AS HAZARDOUS DIVISION 1 OR ZONE 0/1/20/21 BECAUSE OF COMBUSTIBLE OR EXPLOSIVE ATMOSPHERES. FAILURE TO COMPLY WITH THIS WARNING COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.
	 WARNING
	SLL210 ANYLEVEL SENSOR HAS A TEMPERATURE RATING OF T6 (85° C) FOR GAS IN A ZONE 2 / DIVISION 2 ENVIRONMENT. IT MUST NOT BE USED IN AREAS WHERE THE AUTO IGNITION TEMPERATURE OF THE HAZARDOUS MATERIAL IS BELOW THIS RATING.

	 WARNING ONLY THE COMPONENTS SPECIFIED IN THIS MANUAL CAN BE USED. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS DETAILED IN THIS MANUAL. INCORRECT OR SUBSTITUTE COMPONENTS AND/OR DEVIATION FROM THESE INSTRUCTIONS CAN IMPAIR THE SAFETY OF THE WEIGHING TERMINAL AND COULD RESULT IN BODILY INJURY AND/OR PROPERTY DAMAGE.
	 WARNING IN ORDER TO INSTALL THE ACS210 ANYLEVEL UNIT AND SLL210 ANYLEVEL SENSOR IN THE US OR CANADA, METTLER TOLEDO CONTROL DRAWINGS 31161409A MUST BE FOLLOWED WITHOUT EXCEPTION. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE. IT IS MANDATORY TO INSTALL ACS210 ANYLEVEL IN THE SAFE ZONE.
	 WARNING DO NOT INSTALL, DISCONNECT OR PERFORM ANY SERVICE ON THIS EQUIPMENT BEFORE POWER HAS BEEN SWITCHED OFF AND THE AREA HAS BEEN SECURED AS NON-HAZARDOUS BY PERSONNEL AUTHORIZED TO DO SO BY THE RESPONSIBLE PERSON ON-SITE.
	 WARNING DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS OF FLAMMABLE SUBSTANCES.
	 WARNING PERMIT ONLY QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS, AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.
	 WARNING FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD, CONNECT TO A PROPERLY GROUNDED OUTLET ONLY.
	 WARNING DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.
	 WARNING BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT, ALWAYS REMOVE POWER AND WAIT AT LEAST 30 SECONDS. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN BODILY HARM OR DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT.

Tank Design

NOTICE	
THE TANK AND ITS SUPPORT SYSTEM MUST BE DESIGNED BY A LOCALLY QUALIFIED STRUCTURAL ENGINEER; THIS INCLUDES THE SELECTION OF LEVEL SENSORS WHICH BECOME AN INTEGRAL PART OF THE SUPPORT STRUCTURE. THIS IS PARTICULARLY CRITICAL IF THE TANK IS SUBJECT TO EXTRANEIOUS FORCES, FOR EXAMPLE TO WIND OR SEISMIC ACTIVITY. REFER TO THE WEIGH MODULE SYSTEMS HANDBOOK.	
NOTICE	
DO NOT USE HERMETICALLY SEALED (WELDED) LEVEL SENSORS IN A VACUUM AS THEY MAY BE DAMAGED. CONTACT INDUSTRIAL SUPPORT FOR ASSISTANCE.	
NOTICE	
IN SELECTING THE LEVEL SENSOR RATED CAPACITY, CONSIDER ALL LOADS SUPPORTED BY THE SENSOR INCLUDING LIVE LOAD TO BE MEASURED, THE DEAD LOAD OF THE TANK AND THE WEIGHT OF SUPPORTED ANCILLARY EQUIPMENT. ALSO CONSIDER THE WEIGHT DISTRIBUTION IF NOT EVENLY DISTRIBUTED ON ALL SENSORS. REFER TO THE WEIGH MODULE SYSTEMS HANDBOOK.	
NOTICE	
LEVEL SENSORS CAN BE DAMAGED IN WET, WASHDOWN AND CORROSIVE CONDITIONS. REFER TO THE WEIGH MODULES SYSTEMS HANDBOOK FOR MORE INFORMATION.	
NOTICE	
TEMPERATURE CHANGES CAN AFFECT ZERO POINT OR SENSITIVITY AND ADD MECHANICAL BINDING OR DAMAGE TO THE LEVEL SENSORS. FOR MORE DETAILS REFER TO THE WEIGH MODULES SYSTEMS HANDBOOK.	
NOTICE	
IF A TANK IS INSTALLED BETWEEN 2 ROOMS AT DIFFERENT PRESSURES (E.G., A THROUGH-FLOOR TANK INSTALLATION WITH A CLEAN ROOM ABOVE), THIS WILL AFFECT LEVEL MEASUREMENT ACCURACY IF THE PRESSURE DIFFERENTIAL FLUCTUATES.	
NOTICE	
LEVEL SENSORS MUST BE INSTALLED BETWEEN TWO RIGID FRAMES OR SURFACES. LEVEL MEASUREMENT ACCURACY WILL BE AFFECTED IF THE SCALE LEVEL VARIES.	

Installation and Service

	WARNING
	CONFIRM WITH THE CUSTOMER THAT THE ENVIRONMENT IS SAFE FOR THE INSTALLATION OR SERVICE WORK TO BE PERFORMED. THIS IS PARTICULARLY IMPORTANT IN HAZARDOUS AREAS.
	WARNING
	PRIOR TO COMMENCING ANY WORK, REVIEW WITH THE CUSTOMER THE NATURE OF THE WORK TO BE PERFORMED AND COMPLY WITH THE CUSTOMER'S POLICIES AND PROCEDURES FOR WORKING IN THE VICINITY OF THE TANK EQUIPMENT.

	 WARNING CORDON OFF THE WORK AREA TO RESTRICT ACCESS. IF WORKING ON A MEZZANINE FLOOR OR ELEVATED PLATFORM, CORDON OFF THE AREA UNDERNEATH TO PREVENT INJURIES FROM FALLING OBJECTS.
	 WARNING WEAR PROTECTIVE GEAR (E.G., GLOVES, HARD HAT, SAFETY SHOES) AS APPROPRIATE TO THE PRODUCT AND AS REQUIRED ON THE PARTICULAR WORK SITE.
	 WARNING OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.
	 WARNING EXERCISE CARE WHEN MAKING CHECKS, TESTS, AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.
	 WARNING IN CASE OF TANK MOVEMENT OR OSCILLATION, STOP AND ISOLATE THE TANK BEFORE CLEANING OR MAKING ANY ADJUSTMENTS TO THE LEVEL SENSORS.
	 WARNING BE SURE TO BLOCK THE TANK WHEN IT IS IN THE RAISED POSITION WHILE, FOR EXAMPLE, REPLACING A LEVEL SENSOR. DO NOT RELY ON THE JACKING DEVICE ALONE. THE JACK AND BLOCK SHOULD STAND VERTICALLY AND SECURELY CONTACT THE FOUNDATION AND TANK ABOVE. IF THE TANK IS NOT SECURELY BLOCKED, IT COULD SHIFT POSITION RESULTING IN BODILY HARM OR PROPERTY DAMAGE. OBSERVE ALL APPROPRIATE SAFETY PROCEDURES RELATED TO LIFTING AND JACKING.
	 WARNING IF OPERATING IN A HAZARDOUS AREA, THE HAZARDOUS AREA MUST BE MADE SAFE PRIOR TO INSTALLATION, REPLACEMENT OR TROUBLESHOOTING. FAILURE TO COMPLY COULD RESULT IN PERSONAL INJURY, DEATH, AND/OR PROPERTY DAMAGE. THE FOLLOWING CONDITIONS SHOULD BE FULFILLED: 1. THE AREA HAS BEEN RENDERED SAFE AND THE CUSTOMER'S SAFETY COORDINATOR HAS CONFIRMED THAT THERE IS NO DANGER. ENSURE THAT ALL INSTRUCTIONS RELATED TO SAFETY ISSUED BY THE CUSTOMER CAN BE COMPLIED WITH. 2. THE CUSTOMER HAS ISSUED A PERMIT ("SPARK PERMIT" OR "FIRE PERMIT") 3. THE NECESSARY TOOLS AND ANY REQUIRED PROTECTIVE CLOTHING ARE PROVIDED (DANGER OF THE BUILD-UP OF STATIC ELECTRICITY).
	 WARNING INSTALL EQUIPMENT IN A HAZARDOUS AREA ONLY IF THE FOLLOWING CONDITIONS ARE FULFILLED: 1. THE EQUIPMENT HAS BEEN DEEMED SUITABLE FOR THE PARTICULAR HAZARDOUS AREA. AS APPROPRIATE, ENSURE THAT THE INTRINSICALLY SAFE CHARACTERISTIC VALUES AND

	DIVISION/ ZONE APPROVALS OF THE INDIVIDUAL COMPONENTS ARE IN ACCORD WITH ONE ANOTHER. 2. THE EQUIPMENT CAN BE INSTALLED IN ACCORDANCE WITH ITS INSTALLATION INSTRUCTIONS 3. THE EQUIPMENT CAN BE INSTALLED AND POWERED IN ACCORDANCE WITH REGULATIONS, STANDARDS AND STATUTORY REQUIREMENTS FOR ELECTRICAL AND MECHANICAL SYSTEMS IN HAZARDOUS AREAS FOR THE RESPECTIVE COUNTRY. 4. INSTALL ALL COMPONENTS IN HAZARDOUS AREAS IN SUCH A WAY AS TO AVOID IMPACTS & FALLING OBJECTS 5. IN THE EU, MECHANICAL EQUIPMENT INSTALLED IN HAZARDOUS AREAS MUST COMPLY WITH EN ISO 80079-36, NON-ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES. CONSULT THE METTLER TOLEDO ATTESTATION OF CONFORMITY KEMA 211129000 FOR A LISTING OF SUITABLE EQUIPMENT. 6. ENSURE PROPER EQUIPOTENTIAL GROUNDING OF THE TERMINAL, MOUNTING ACCESSORIES, AND LEVEL SENSORS. NOTE: INCORRECT OR SUBSTITUTE COMPONENTS AND/OR DEVIATION FROM METTLER TOLEDO INSTRUCTIONS CAN IMPAIR THE SAFETY OF THE SYSTEM AND COULD RESULT IN BODILY INJURY AND/OR PROPERTY DAMAGE.
--	--

NOTICE
FAILURE TO INSTALL LEVEL SENSORS AND ASSOCIATED PARTS IN STRICT CONFORMITY WITH THIS DOCUMENT MAY RESULT IN MALFUNCTION, LEVEL MEASUREMENT INACCURACY, AND MAY PERMANENTLY DAMAGE THE EQUIPMENT.
NOTICE
TAKE CARE WHEN LOWERING THE TANK ONTO THE LEVEL SENSORS NOT TO CREATE ANY SHOCK LOADS THAT COULD DAMAGE A WEIGH MODULE, LOAD CELL, OR LEVEL SENSOR.
NOTICE
DO NOT PASS WELDING CURRENT THROUGH THE LEVEL SENSORS! WHEN WELDING ON A TANK, POSITION THE GROUND CLAMP AS CLOSE AS POSSIBLE TO THE WELD SITE AND SUCH THAT THE WELDING CURRENT FLOWS DIRECTLY TO THE CLAMP WITHOUT PASSING THROUGH ANY SENSOR. SHIELD THE SENSOR CABLE FROM WELD SPATTER. NEVER WELD WITHIN 4 FEET (1.2 METERS) OF ANY SENSOR WITHOUT REMOVING THE SENSOR.
NOTICE
THE LEVEL SENSOR'S TOP AND BOTTOM PLATES AND/OR THREADED STEM MUST BE FIXED AND SUPPORTED SUFFICIENTLY TO AVOID ANY DEFORMATION OF THESE PARTS UNDER LOAD. YOU CAN FULLY SUPPORT THE BASE PLATE BY GROUTING UNDER IT OR BY SHIMMING AT MULTIPLE LOCATIONS.
NOTICE
THE ANTI-LIFT-OFF SCREW OR SLEEVE, WHERE USED, MUST BE LOCKED IN POSITION AS DESCRIBED FOR THE ANTI-LIFT-OFF FUNCTION TO OPERATE CORRECTLY. FAILURE TO DO SO MAY RESULT IN BODILY HARM OR DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT.

Use and Routine Maintenance

	 WARNING
	IN HAZARDOUS AREAS: 1. AVOID ELECTROSTATIC CHARGING DURING OPERATION AND MAINTENANCE. KEEP THE EQUIPMENT AWAY FROM PROCESSES THAT GENERATE HIGH CHARGING POTENTIAL SUCH AS ELECTROSTATIC COATING, RAPID TRANSFER OF NON-CONDUCTIVE MATERIALS, RAPID AIR JETS, AND HIGH-PRESSURE AEROSOLS. 2. DO NOT USE DRY CLOTH TO CLEAN NON-CONDUCTIVE PARTS OF LOAD CELLS, WEIGH MODULES, LEVEL SENSORS AND THEIR ACCESSORIES. ALWAYS USE A DAMP CLOTH TO GENTLY CLEAN THESE ITEMS.

NOTICE
DO NOT OVERLOAD THE TANK BY EXCEEDING TANK CAPACITY.
NOTICE
EXERCISE CARE IN LOADING A TANK TO AVOID SHOCK DAMAGE TO THE LEVEL SENSORS; THIS CAN OCCUR IF HEAVY SOLID OBJECTS ARE DROPPED OR LOWERED QUICKLY ONTO IT. REFER TO THE WEIGH MODULE SYSTEMS HANDBOOK.
NOTICE
IN CASE OF TANK MOVEMENT OR OSCILLATION, STOP AND ISOLATE THE TANK BEFORE CLEANING THE LEVEL SENSORS.
NOTICE
ICE BUILD-UP AROUND THE LEVEL SENSOR CAN SERIOUSLY IMPACT PERFORMANCE AND MAY DAMAGE THE SENSOR. AVOID STANDING WATER, ESPECIALLY IN AREAS WHERE IT CAN FREEZE.
NOTICE
SNOW, ICE, CONDENSATION, OR DEBRIS BUILD-UP ON A TANK WILL DIRECTLY IMPACT THE MEASUREMENT. REFER TO THE WEIGH MODULE SYSTEMS HANDBOOK.
NOTICE
WIND AND DRAFTS ACTING ON THE UNDERSIDE, SIDE, OR TOP OF A TANK CAN AFFECT LEVEL MEASUREMENT ACCURACY.

Disposal of Electrical and Electronic Equipment

In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.



Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

Thank you for your contribution to environmental protection.

This document is intended to cover the electrical and mechanical installation in non-hazardous environments. For more information for installation please refer to the additional documentation on the [Download page](#).

For background information about tank installations please refer to the [Weigh Module Systems Handbook](#).

Consideration of all safety relevant design precautions including but not limited to wind load resistance and thermal expansion is required. Level detection sensor installation requires mechanical and electrical skills and shall only be performed by trained and authorized technicians.

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1 Introduction

1.1 Overview

This installation guide describes some basic concepts about Division 2 and Zone 2/22 hazardous areas and provides guidelines for installing the SLL210 AnyLevel™ sensors in hazardous areas for level detection, together with the ACS210xx AnyLevel™ Unit in safe area. The ACS210xx name is also used in short form in this document, as ACS210.

ATEX and IECEx certified versions of the SLL210 AnyLevel™ are approved for installation and use in Zone 2/22 areas.

FM and cFM certified versions of the SLL210 AnyLevel™ are approved for installation and use in Division 2 and Zone 2/22 hazardous areas.

For SLL210 AnyLevel™, all the different options of mechanical tank installation (three mechanical coupling and two sizes) are suitable for use in hazardous areas.

The ACS210 AnyLevel™ Unit must be installed in safe area such as the control cabinet, to communicate and to limit the power to levels that can be transmitted safely to SLL210 AnyLevel™ sensors located inside the hazardous area.

The hazardous area solution for level detection requires the use of the ACS210 AnyLevel™ Unit and METTLER TOLEDO Sensor-to-Sensor Cables to ensure the safe operation of the system and to fulfill the certification requirements.

	 WARNING METTLER TOLEDO ASSUMES NO RESPONSIBILITY FOR CORRECT INSTALLATION OF THIS EQUIPMENT WITHIN A ZONE 2 / ZONE 22 / DIVISION 2 AREA. THE INSTALLER MUST BE FAMILIAR WITH ALL ZONE 2 / ZONE 22 / DIVISION 2 WIRING AND INSTALLATION REQUIREMENTS.
	THE LEVEL SENSOR SLL210 IS DESIGNED TO WORK WITH THE ACS210 UNIT AND SENSOR-TO-SENSOR CABLES PROVIDED BY METTLER TOLEDO.
	METTLER TOLEDO DOES NOT CLASSIFY HAZARDOUS AREAS!

1.2 FM Approvals

The approval by FM Approvals applies to:

- Zone 2/Zone 22/Division 2 application that require compliance to National Electrical Code (NEC) in the United States
- Zone 2/Zone 22/Division 2 application that require compliance to Canadian Electric Code (CEC) in Canada
- The passing of the sensor connections from a safe area to a Zone 2/ Zone 22/ Division 2 location per the National Electrical Code (NEC) in the United States.
- The passing of the sensor connections from a safe area to a Zone 2/ Zone 22/ Division 2 location per the Canadian Electric Code (CEC) in Canada.

The approval by FM applies to:

- Zone 2/ Zone 22 applications that require compliance to European/UK IEC 60079-14.
- Zone 2/ Zone 22 applications installed to standard IEC 60079-14.

These approvals may also be acceptable in other worldwide locations. Confirm with the customer or with local authorities the acceptance of these approvals before installation. Regardless of the installation location, all local and national wiring and installation requirements must be followed during installation.

	WARNING
	IN ORDER TO INSTALL THE ACS210 ANYLEVEL UNIT AND SLL210 ANYLEVEL SENSOR IN THE US OR CANADA, METTLER TOLEDO CONTROL DRAWINGS 31161409A MUST BE FOLLOWED WITHOUT EXCEPTION. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE. IT IS MANDATORY TO INSTALL ACS210 ANYLEVEL IN THE SAFE ZONE.

2 Product Marking

The Hazardous Certification of the SLL210 AnyLevel™ sensors can be downloaded from ► www.mt.com/ind-downloads-sll210.

2.1.1 Ex Label

The SLL210 AnyLevel™ Ex Label, FM, ATEX&IECEx is located on the type-plate attached to the level sensor. Figure 1 shows an example of the type-plate Ex Label.

 ☐ II 3 G Ex ec IIC T6 Gc ☐ II 3 D Ex tc IIIC T85°C Dc FM25ATEX0038X IECEx FMG 25.0037X SEE INSTRUCTIONS 30968175 Rated Voltage: 24V d.c. Rated Power: 0.55W   -20°C ≤ Ta ≤ +60°C ☐ CHECK ☒ APPLICABLE PROTECTION. ONCE SELECTED, IT SHOULD NOT BE CHANGED WARNING: APPROVED ONLY WHEN METTLER TOLEDO CABLE OR TERMINATOR IN PLACE. DO NOT REMOVE CABLES OR LEAVE UNTERMINATED WHEN ENERGIZED. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED. Mettler-Toledo GmbH, Im Langacher 44, CH-8606 Greifensee, Switzerland	FM25US0260X: Cl I, II, III, Div 2, Gp A, B, C, D, F, G T6 Zone 2 AEx ec IIC T6 Gc; Zone 22 AEx tc IIIB T85°C Dc  -20°C ≤ Ta ≤ +60°C See INSTRUCTIONS 30968175 WARNING: APPROVED ONLY WHEN METTLER TOLEDO CABLE OR TERMINATOR IN PLACE. DO NOT REMOVE CABLES OR LEAVE UNTERMINATED WHEN ENERGIZED. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED. AVERTISSEMENT: APPROUVE UNIQUEMENT LORSQUE LE CÂBLE OU LE TERMINATEUR METTLER TOLEDO EST EN PLACE. NE PAS RETIRER LES CÂBLES NI LES LAISSER NON TERMINÉS SOUS TENSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION.	FM25CA0088X: Cl I, II, III, Div 2, Gp A, B, C, D, F, G T6 Zone 2 Ex ec IIC T6 Gc; Zone 22 Ex tc IIIC T85°C Dc  C US METTLER TOLEDO WARNING: TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING. HAZARDOUS AREA INSTALLATION MUST BE IN ACCORDANCE WITH METTLER TOLEDO INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN BODILY INJURY OR PROPERTY DAMAGE. AVERTISSEMENT: POUR ÉVITER L'INFLAMMATION D'ATMOSPHÈRES INFLAMMABLES OU COMBUSTIBLES, COUPER LE COURANT AVANT L'ENTRETIEN. ZONE DANGEREUSE INSTALLATION DOIT ÊTRE EN CONFORMITÉ AVEC LES INSTRUCTIONS DE METTLER TOLEDO. LE DÉFAUT DE LE FAIRE PEUT ENTRAÎNER DES BLESSURES OU DES DOMMAGES MATÉRIELS BODILY. METTLER-TOLEDO GmbH, Im Langacher 44, CH-8606 greifensee, Switzerland
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Figure 1 : SLL210 AnyLevel™ Ex Label, FM, ATEX&IECEx.

2.1.2 U.S. Approvals

The SLL210 AnyLevel™ sensors have been approved to be used in hazardous areas classified as Division 2 and Zone 2/22. Classification details are listed in the Table below. Please note that the installation mandatorily requires the usage of ACS210 AnyLevel™ unit, which is placed in the safe zone. For installation details, please refer to the control drawing 31161409A.

FM Division 2 and Zone 2/22 - USA	
Certificate Number	FM25US0260X
Classification	Cl I, II, III, Div 2, Gp A, B, C, D, F, G T6
Gas Rating	Zone 2 AEx ec IIC T6 Gc
Dust Rating	Zone 22 AEx tc IIIB T85°C Dc Ta= -20°C +60°C

2.1.3 Canadian Approvals

The SLL210 AnyLevel™ sensors have been approved to be used in hazardous areas classified as Division 2 and Zone 2/22. Classification details are listed in the Table below. Please note that the installation mandatorily requires the usage of ACS210 AnyLevel™ unit, which is placed in the safe zone. For installation details, please refer to the control drawing 31161409A.

FM Division 2 and Zone 2/22 - Canada	
Certificate Number	FM25CA0088X
Classification	Cl I, II, III, Div 2, Gp A, B, C, D, F, G T6
Gas Rating	Zone 2 Ex ec IIC T6 Gc
Dust Rating	Zone 22 Ex tc IIIC T85°C Dc Ta= -20°C +60°C

2.1.4 European ATEX Approval

The SLL210 AnyLevel™ sensors have been approved to be used in hazardous areas classified as Zone 2/22. Classification details are listed in the Table below. Please note that the installation mandatorily requires the usage of ACS210 AnyLevel™ unit, which is placed in the safe zone. For installation details, please refer to the installation drawing 31161408A.

ATEX Zone 2 / Zone 22		
Certificate Number		FM25ATEX0038X
Gas Rating		II 3 G Ex ec IIC T6 Gc
Dust Rating		II 3 D Ex tc IIIC T85°C Dc Ta= -20°C +60°C

2.1.5 Global IECEx Approval

The SLL210 AnyLevel™ sensors have been approved to be used in hazardous areas classified as Zone 2/22. Classification details are listed in the Table below. Please note that the installation mandatorily requires the usage of ACS210 AnyLevel™ unit, which is placed in the safe zone. For installation details, please refer to the installation drawing 31161408A.

IECEx Zone 2 / Zone 22	
Certificate Number	IECEx FMG 25.0037X
Gas Rating	Ex ec IIC T6 Gc
Dust Rating	Ex tc IIIC T85°C Dc Ta= -20°C +60°C

3 ACS210 AnyLevel™ Overview

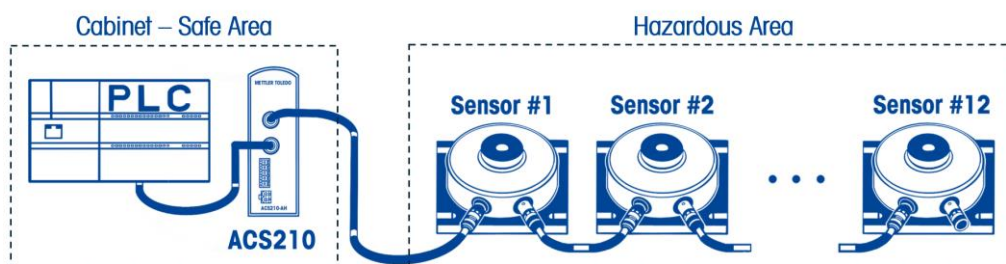


Figure 2 : Schematic of the ACS210 unit and SLL210 AnyLevel™ sensors connected in daisy chain.

3.1 ACS210 AnyLevel™ Unit

The ACS210 AnyLevel™ unit is available in three different versions for the different communication protocols:

- ACS210-A for the 4-20 mA analog
- ACS210-AH for 4-20 mA HART analog HART®
- ACS210-IOL for the IO-Link



Figure 3: ACS210 AnyLevel™ unit available in 4-20 mA analog, HART and IO-Link communication protocols.

3.2 ACS210 Unit Dimensions

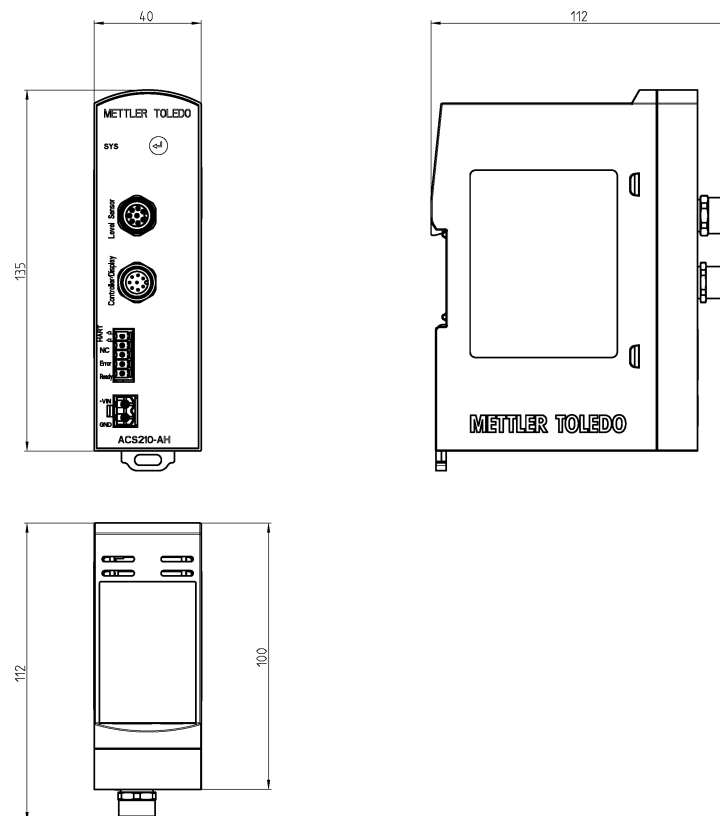


Figure 4: ACS210 AnyLevel™ unit technical drawing.

3.3 Item Numbers

Please refer to the [SLL210 Product Brochure](#) for a complete listing of the item numbers for all different sensor variants and the accessories.

3.4 Incoming Inspection, Transport, Storage

For Incoming Acceptance, check the packing and contents for any signs of damage. Check the shipment, make sure nothing is missing and that the scope of supply matches your order. For Storage, pack the ACS210 AnyLevel™ unit and SLL210 AnyLevel™ sensors so that it is protected against impacts for storage and transport. The original packing material provides optimum protection. The permissible storage temperature is -40 °C to +80 °C. **Ensure that the ACS210 unit and the SLL210 sensor top sensor surface are not subject to mechanical impacts.**

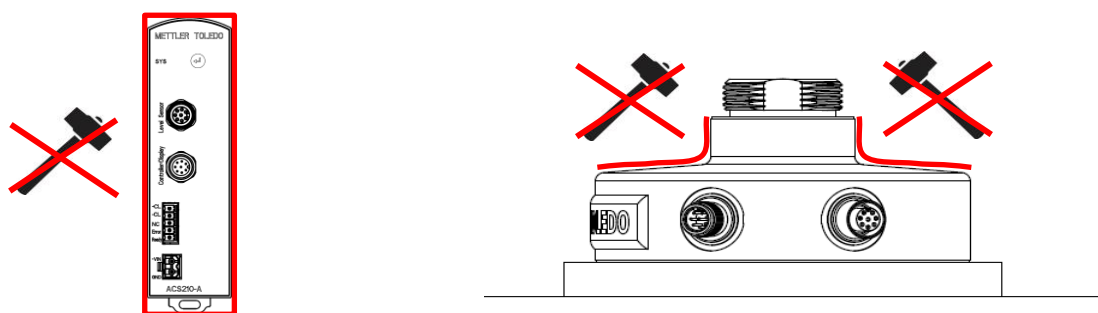


Figure 5: The top surface and the connector areas are sensitive to mechanical impacts.

4 Installation

4.1 Before Installation

Before installing the ACS210 AnyLevel™ unit and SLL210 AnyLevel™ Sensors in the US and Canada, read and understand METTLER TOLEDO control drawing 31161409A included in the section 8 Approval Documents

Before installing the Category 3 rated SLL210 AnyLevel™ into an area classified as Zone 2 / Zone 22 according to the European/UK, read and understand METTLER TOLEDO installation drawing 31161408A and the specific conditions of use listed on Type Examination Certificate FM25ATEX0038X included in the section 8.1.8 Global and International Installation Drawing (ATEX and IECEx) of this guide.

For installation of SLL210 AnyLevel™ in an ATEX /IECEx Zone 2 / Zone 22 location and FM Div2 and Zone 2/22, the ACS210 AnyLevel™ must be installed in the safe zone. For installation details, please refer to the control drawings 31161409A and installation drawing 31161408A.

Before beginning the installation, confirm that the correct markings are on the SLL210 AnyLevel™ Sensor, ensuring that it has been approved for use in Zone 2/Zone 22 and Div2. areas. The markings are shown in section 2 Product Marking of this guide.

If the SLL210 AnyLevel™ sensor does not include the approval markings as shown in section 2 Product Marking of this guide, the sensors cannot be installed in the hazardous area.

4.1.1 Non-incendive (NI) Approval

The SLL210 AnyLevel™ sensor have been approved for the United States and Canada as Non-Incendive protected Apparatus and can be installed in Division 2 and Zone 2/22 areas. Please note that the installation mandatorily requires the usage of ACS210 AnyLevel™ unit, which is placed in the safe zone.

For installation details, please refer to the control drawings 31161409A. Refer to the National Electrical Code, Canadian Electrical Code, or applicable local ordinance for allowed wiring methods.

4.1.2 Increased safety (ec) Approval

SLL210 AnyLevel™ sensor has been approved as increased safety device for Zone 2 environments. This permits the equipment to be physically located within a Zone 2 area.

- For Level of Protection “ec”, the equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- For Level of Protection “ec”, transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- For Level of Protection “ec”, the labels shall only be cleaned with a damp cloth to avoid electrostatic discharge.

The two external threaded socket connections shall only be used with Mettler-Toledo sensor-to-sensor PLTC cables or the Mettler-Toledo terminal resistor (model 30968163). Cable Protection Clamp must be installed to secure the cable and the terminal resistor connections. The cable protection clamps are fixed to the cable protector with DIN933, M6x10, SS A4-70 screws.

4.1.3 Protection by Enclosure (tc) Approval

For Level of Protection “tc”, electrostatic charge of the labels due to propagation brush discharge shall be avoided.

4.1.4 Temperature Rating

It is important that the temperature rating of the SLL210 AnyLevel™ sensor be appropriate for the environment in which it will be used. SLL210 AnyLevel™ sensor has been approved with a temperature rating of T6 (85°C) for gas. This value must be lower than the Auto Ignition Temperature (AIT) of the hazardous product in order to be safe. If the AIT of the hazardous product is lower than the temperature rating of SLL210 AnyLevel™ sensor, then the SLL210 AnyLevel™ sensor MUST NOT BE USED in that environment.

	 WARNING SLL210 ANYLEVEL SENSOR HAS A TEMPERATURE RATING OF T6 (85° C) FOR GAS IN A ZONE 2 / DIVISION 2 ENVIRONMENT. IT MUST NOT BE USED IN AREAS WHERE THE AUTO IGNITION TEMPERATURE OF THE HAZARDOUS MATERIAL IS BELOW THIS RATING.
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4.2 Mechanical Installation

4.2.1 ACS210 Unit Mechanical Installation

The ACS210 unit is intended to be installed on the standard 35mm DIN rail. The DIN mount has a three-point integral indicator grounding system, indicated in Figure 6. There are two grounding points.

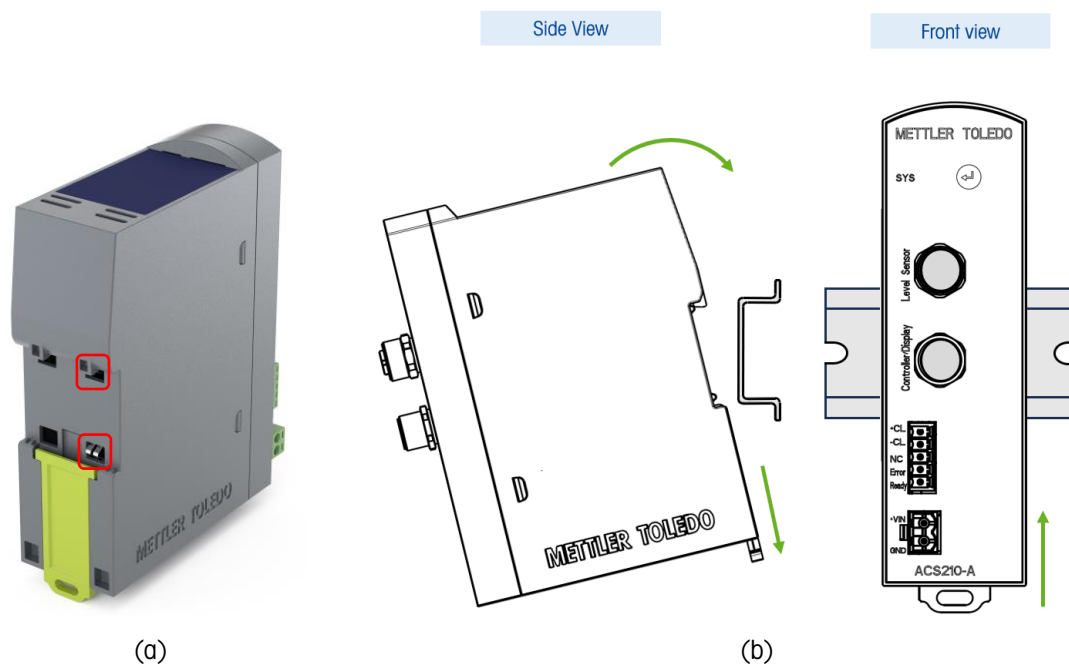


Figure 6: (a) DIN-Mount Latch and Grounding System, (b) Mounting procedure on the standard 35mm DIN rail.

To mount the ACS210 unit on a rail, open the green latch by pulling down, then position the indicator so that its upper tabs rest on the DIN rail. Use a screwdriver to push the latch up and secure the indicator in place.



Figure 7: DIN-Mount Latch Open (left) and Closed (right)

To detach the ACS210 unit, simply put the blade of a screwdriver in the latch and press it downward.

4.2.2 SLL210 AnyLevel™ Mechanical Installation

The mechanical installation sequence of the SLL210 AnyLevel™ Sensors to the foundation in hazardous area is identical to the safe area.

The SLL210 AnyLevel™ mechanical installation is described in the SLL210 AnyLevel Installation Manual, in the section "Mechanical Installation", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

The SLL210 AnyLevel™ sensor must be electrically grounded.

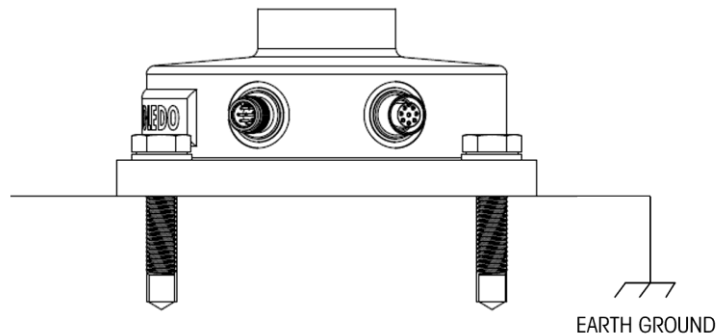


Figure 8: SLL210 AnyLevel™ sensor must be securely mounted to the base surface and grounded.

4.3 Electrical Installation

4.3.1 ACS210 Interface Features

The ACS210 unit is available in three different versions for the different communication protocols: ACS210-A for the 4-20 mA Analog, ACS210-AH for 4-20 mA HART, ACS210-IOL for the IO-Link versions.

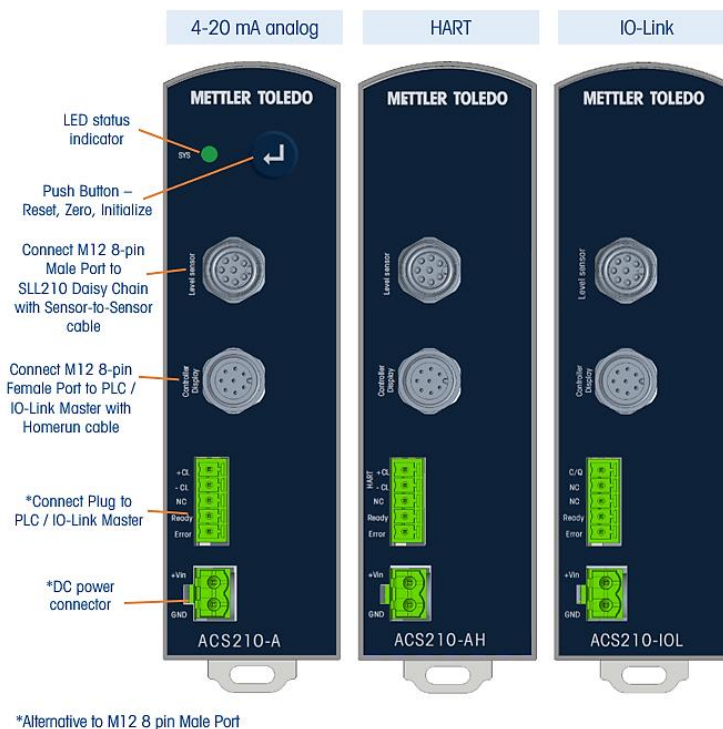


Figure 9 : ACS210 Interface Features (Front View) for the different communication protocols.

For the 4-20 mA HART and IO-Link, the sensors parameters can be configured via a software interface.

For the 4-20 mA Analog, the LED Push Button has been integrated to the ACS210 unit to mechanically configure the daisy chain (initialization, zeroing, re-setting) by pressing on the button for defined time ranges. Therefore, the external LED Push Button is not required anymore, and the daisy-chain is terminated with the terminal resistor. The LED different blinking modes provides information about the status of the operations. Span adjustment is not possible for the 4-20 mA Analog version. The operation procedure is explained in detail in Section 5 Operation.

The connection to the PLC (/IO-Link Master for the IO-Link version) is possible either with:

- The homerun cable with M12 female 8-pin-M12 male 5-pin connectors for the IO-Link version
- The homerun cable with M12 female 8-pin to open end for the 4-20 mA and HART versions
- The 5 pins connector is an alternative to the homerun cables for all versions.

4.3.2 SLL210 and ACS210 Electrical Specifications

The electrical specifications of the ACS210 unit with the SLL210 level sensors is described in Table 1.

SLL210 and ACS210 Electrical Specifications	
Input Voltage Range (Rated)	24 V / DC
Maximum Power Consumption per Sensor	0.55 W

Table 1: SLL210 and ACS210 Electrical Specifications

The ACS210 AnyLevel™ unit is required for hazardous applications. Use a Power Converter (Item Number: 30617714) in case your system provides 220V AC, as the ACS210 unit requires 24V DC power supply.

4.3.3 Sensor-to-Sensor Cables

The hazardous area solution for level detection requires the use of METTLER TOLEDO Sensor-to-Sensor Cables to ensure the safe operation and to fulfill the certification requirements. METTLER TOLEDO Sensor-to-Sensor Cables are Power Limited Tray Cables (PLTC).

Power Limited Tray Cables are a 300V solution for power limited circuits rated to the UL13 standard. PLTC Cable features flame-resistant insulation and jackets that resist oil, sunlight, moisture, and chemicals. It provides strong electrical performance and is available in multiple shielding options to reduce interference in sensitive control circuits.

The maximum length of the ACS210-to-Sensor cable provided by METTLER TOLEDO is 200m (656 feet). The maximum length of the Sensor-to-Sensor cable provided by METTLER TOLEDO is 20m (65.6 feet).

4.3.4 Cable Protection Clamp

The installation of SLL210 AnyLevel™ in hazardous area requires a tool-secured clamshell-style clamp for each sensor connection. Each sensor requires two cable protection clamps. By default, eight clamps are supplied with the ACS210 AnyLevel™ unit. For Installation with more than four support points, extra clamps are available as accessories.

Accessories are listed with Material Number in Section 7.4 of the SLL210 AnyLevel™ User Manual Accessories on the [SLL210 Product download page](#).



Figure 10: Cable Protection Clamp.

Figure 11 shows how to install the cable protection clamp to secure the cable and the terminal resistor connections. The cable protection clamps are fixed/mounted to the cable protector with DIN933, M6x10, SS A4-70 screws.

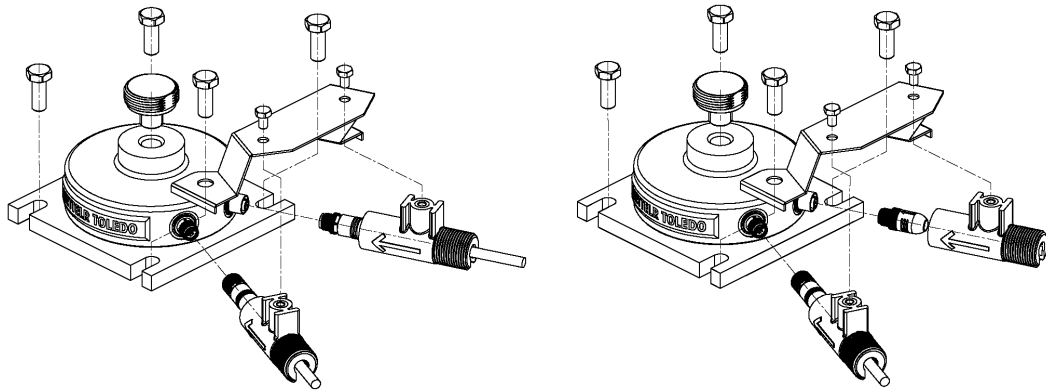


Figure 11 :Installation of the cable protection clamp and cable protector for hazardous applications.

4.3.5 Cable connection

The ACS210 unit is connected to the automation control system/IO-Link Master via a homerun cable. A homerun cable with M12 female 8-pin-M12 male 5-pin connectors is required for the IO-Link version. A homerun cable with M12 8-pin female to open wires is required for the 4-20 mA and HART versions. The SLL210 AnyLevel™ sensors are connected in a daisy-chain. The first sensor is connected to the ACS210 unit using a PLTC (Power Limiting Tray Cable) M12 8-Pin sensor-to-sensor cable. The connectors are protected from mechanical impacts by cable protectors and cable protection clamps. **For all communication protocols, the daisy chain must be terminated with a terminal resistor to fulfill the power limitations in hazardous areas.**

Figure 12 shows which components are installed in Safe and Hazardous areas.

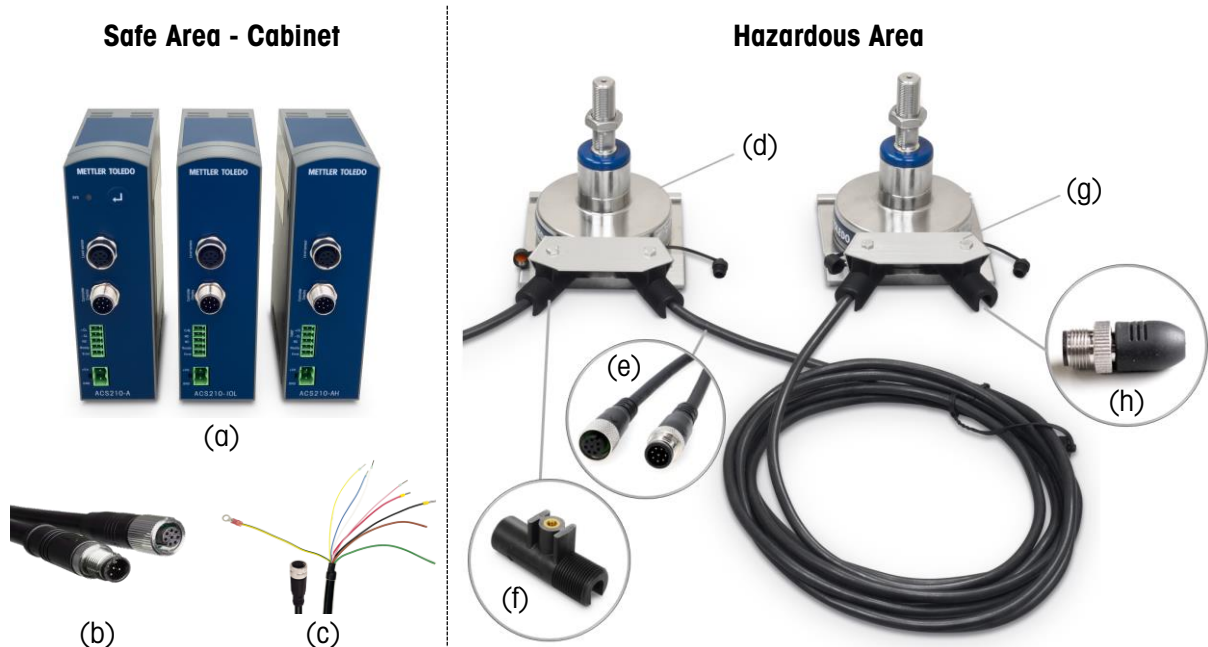


Figure 12 : Components for Safe Area : (a) ACS 210 units, (b) Homerun cable with M12 female 8-pin-M12 male 5-pin connectors for IO-Link version, (c) M12 8-pin female to open wires homerun cable for the 4-20 mA and HART versions. Components for Hazardous Area: (d) SLL210 AnyLevel sensors, (e) PLTC M12 8-Pin sensor-to-sensor cables, (f) Cable Protection Clamps, (g) Cable protector, (h) Terminal resistor.

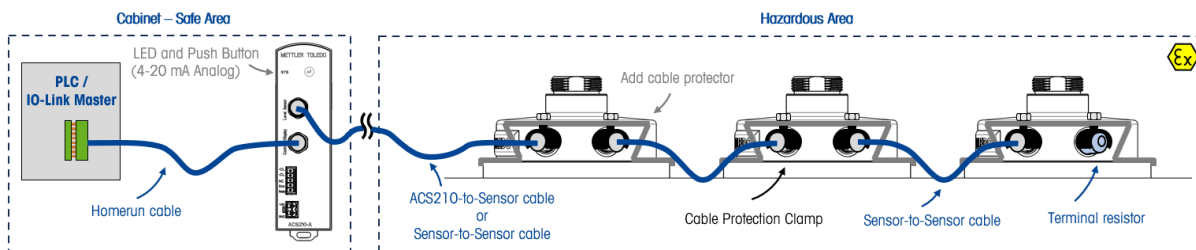


Figure 13 : Schematic of the ACS210 unit and SLL210 AnyLevel™ sensors connected in series in daisy chain.

For the hazardous area solution for level detection, the maximum number of sensors in a daisy chain in function of homerun and sensor-to-sensor cable length for different supply voltages (24V and 30V Input Voltage) is identical to the standard SLL210 AnyLevel installed in the safe area.

It is described in the SLL210 AnyLevel Installation Manual, in the section "Electrical Installation", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

4.3.6 Pin Assignment

For the hazardous area solution for level detection, the Pin Assignment of the Homerun cables is identical to the standard SLL210 AnyLevel installed in the safe area.

The Pin Assignment is described in the SLL210 AnyLevel Installation Manual, in the section "Electrical Installation", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

4.4 Installation Procedure

4.4.1 Installation Overview

The ACS210 unit is installed in the safe area such as the control cabinet, to communicate and to limit the power to levels that can be transmitted safely to SLL210 level sensors located inside the hazardous area. In the safe area, the ACS210 unit is directly connected to the automation control system via a homerun cable for the 4-20mA and 4-20mA HART versions or connected to the IO-Link Master (Figure 14) for the IO-Link version.



Figure 14 : ACS210-IOL unit connected from the safe area to the SLL210 AnyLevel™ sensors connected in series in daisy chain in the hazardous area.

4.4.2 Hazardous area

The Installation of the SLL210 AnyLevel™ sensors in hazardous area requires all the components shown in Figure 15.

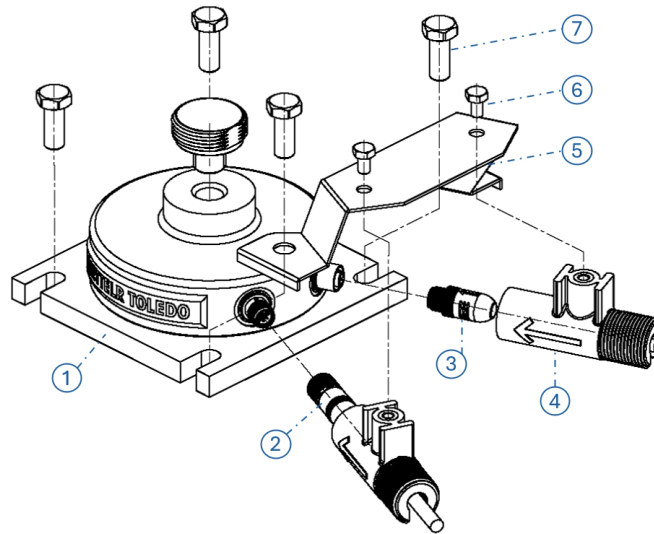


Figure 15 : Installation of the SLL210 AnyLevel™ sensors in hazardous area.

The required components includes 1 SLL210 AnyLevel™ sensor (N°1), 1 PLTC sensor-to-sensor cables (N°2 - Item Numbers: 30937215 to 30937218), 1 terminal resistor (N°3 - Item Number: 30937214), 2 cable protection clamps (N°4 - Item Number: 31097151), 1 cable protector (N°5), 2x M6x10 bolts (N°6) to mount the cable protection clamps to the cable protector, 4xM10 Bolts (N°7) to mount the sensor to the foundation.



Figure 16: Required components to install SLL210 AnyLevel™ sensor in hazardous area.

Step 1:

Remove the dust cap from the female sensor-to-sensor cable connector. Connect the cable connector with the corresponding SLL210 AnyLevel™ sensor connector. Ensure that the daisy chain is terminated with a M12 terminal resistor. Ensure that all the cable connectors and the terminal resistor are properly tightened.

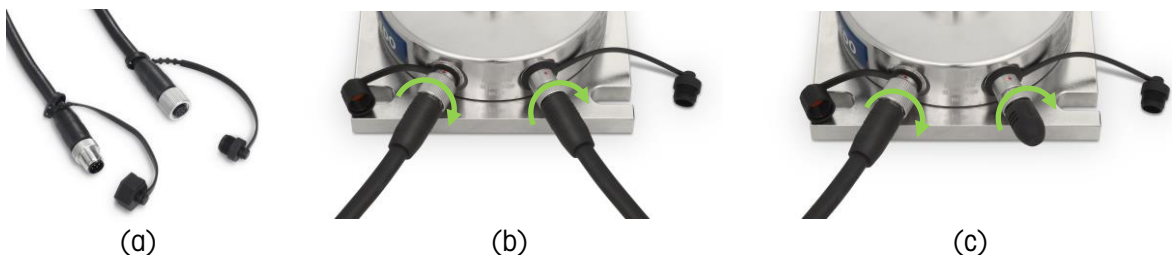


Figure 17: (a) PLTC sensor-to-sensor cable, (b) connect the cable connector with the corresponding sensor connector, (c) terminate the daisy chain with a M12 terminal resistor.

Step 2:

Place the cable protection clamps onto the cable, with the arrow pointing to the sensor. Then, slide the cable protection clamps until covering completely the connector and reaching the sensor surface. The same procedure applies for the mounting onto the terminal resistor.

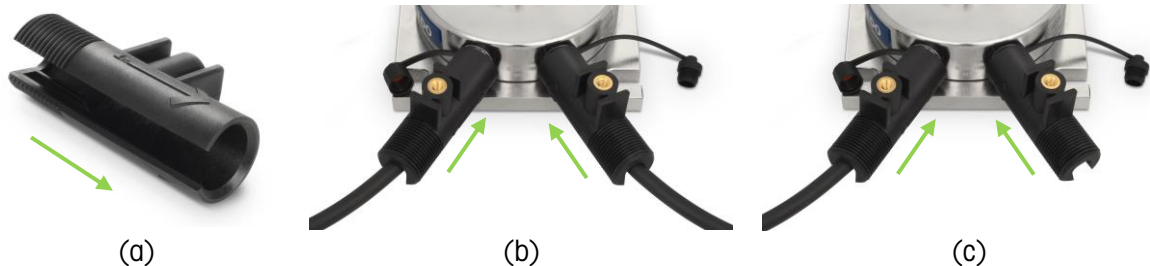


Figure 18: (a) Cable protection clamps, (b) slide the cable protection clamps onto the connector until reaching the sensor surface, (c) slide the cable protection clamps onto the terminal resistor until reaching the sensor surface.

Step 3:

Position the cable protector above the cable protection clamps. Adjust the position of the cable protector to align the cable protection clamps threaded holes as well as the SLL210 base plate holes with the cable protector holes. Fix the cable protection clamps to the cable protector with M6x10 bolts. Ensure the bolts are properly tightened.

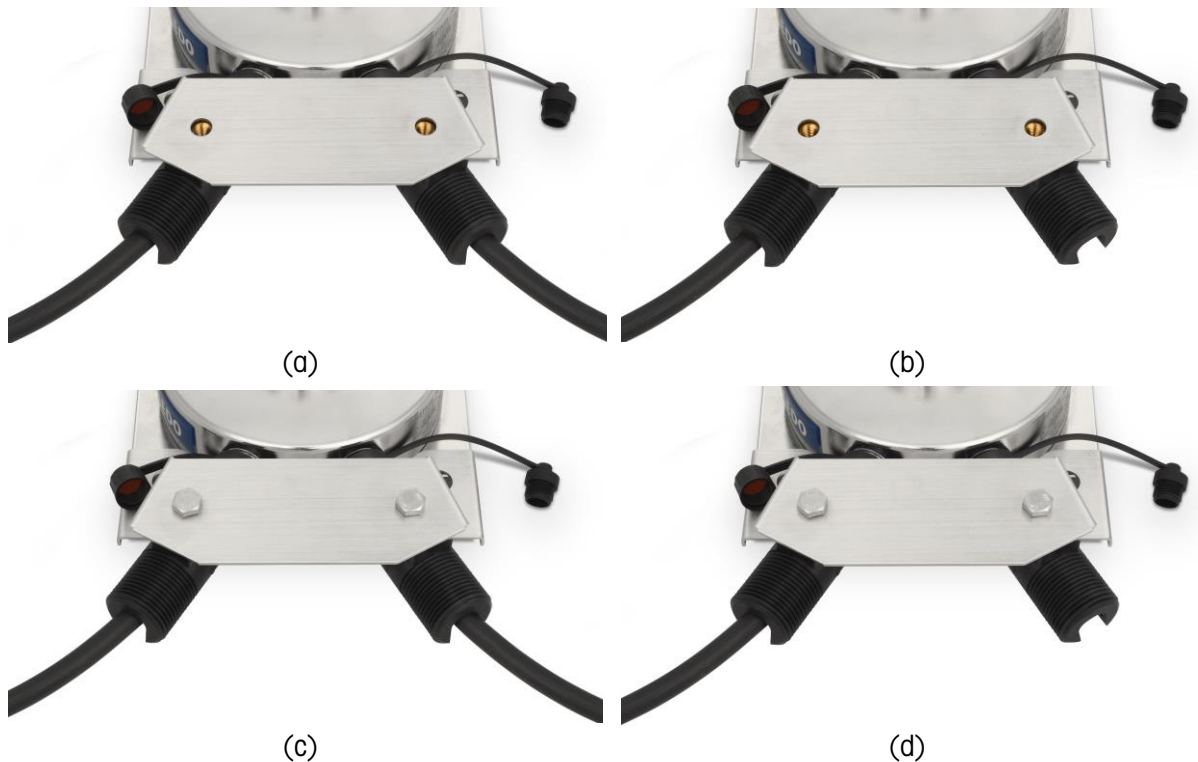


Figure 19: (a,b) Adjust the position of the cable protector. (c,d) Fix the cable protection clamps to the cable protector.

The SLL210 AnyLevel™ sensor base plate must be fixed to the foundation with M10 bolts and must be grounded.

5 Operation

5.1.1 IO-Link and 4-20 mA analog HART

The operation procedure of SLL210 AnyLevel™ with IO-Link and 4-20 mA analog HART protocols in hazardous area is identical to the operation in the safe area.

The SLL210 AnyLevel™ operation procedure is described in the SLL210 AnyLevel Installation Manual, in the section "Operation", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

5.1.2 4-20 mA analog

For the 4-20 mA Analog, the LED Push Button has been integrated to the ACS210 unit to mechanically configure the daisy chain (initialization, zeroing, re-setting) by pressing on the button for defined time ranges. Therefore, the external LED Push Button is not required anymore, and the daisy-chain is terminated with the terminal resistor. The LED different blinking modes provides information about the status of the operations. Span adjustment is not possible for the 4-20 mA Analog version.

The 'zero' function assigns 4 mA to the current filling level. The 'zero' function assigns 4 mA to the current filling level. The 'reset' button is used for resetting all parameters of the daisy chain (including the zero level) back to the factory default value.



Figure 20: LED Push Button has been integrated to the ACS210 unit to mechanically configure the daisy chain (a,b), the daisy-chain is terminated with the terminal resistor (c,d).

The operation procedure of SLL210 AnyLevel™ with 4-20 mA analog protocol in hazardous area is identical to the operation in the safe area.

The SLL210 AnyLevel™ operation procedure is described in the SLL210 AnyLevel Installation Manual, in the section "Operation", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

6 Service Parts and Accessories

There are no dedicated services parts available. Accessories are listed in the SLL210 AnyLevel Installation Manual, in the section "Service Parts and Accessories", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

7 Communication and Configuration

For all communication protocols, the communication and configuration procedure in hazardous area is identical to the safe area.

The SLL210 AnyLevel™ communication and configuration procedure is described in the SLL210 AnyLevel Installation Manual, in the section "7Communication and Configuration", the document can be downloaded from ► www.mt.com/ind-downloads-sll210.

8 Approval Documents

8.1 Approval Documents

8.1.1 United States

FM Approvals LLC has investigated the SLL210 AnyLevel™ sensor and issued a Certificate of Compliance indicating compliance to the U.S. requirements for a Division 2 and Zone 2/22 Associated NIFW apparatus. The certificate for this approval can be found at <https://www.mt.com/us/en/home/search/compliance.html>

8.1.2 Canada

FM Approvals LLC has investigated the SLL210 AnyLevel™ sensor and issued a Certificate of Compliance indicating compliance to Canadian requirements for a Division 2 and Zone 2 NIFW / Associated NIFW Apparatus. The certificate for this approval can be found at <https://www.mt.com/us/en/home/search/compliance.html>

8.1.3 Control Drawing (FM and cFM)

In order to meet the U.S. and Canadian Division 2 requirements, control drawing 31161409A is provided. Review this drawing before installation. If there are any questions regarding the details in the control drawing, please contact the local METTLER TOLEDO representative. Refer to section 8.1.7 Control Drawing (FMUS and FMCA) for the drawing.

8.1.4 Europe (ATEX)

FM. has issued a Type Examination Certificate indicating compliance of the SLL210 AnyLevel™ sensor with European requirements for Essential Health and Safety Requirements and the ATEX directive 2014/34/EU for Category 3 equipment. Review this certificate for details of the approval. The certificate for this approval can be found at <https://www.mt.com/us/en/home/search/compliance.html>

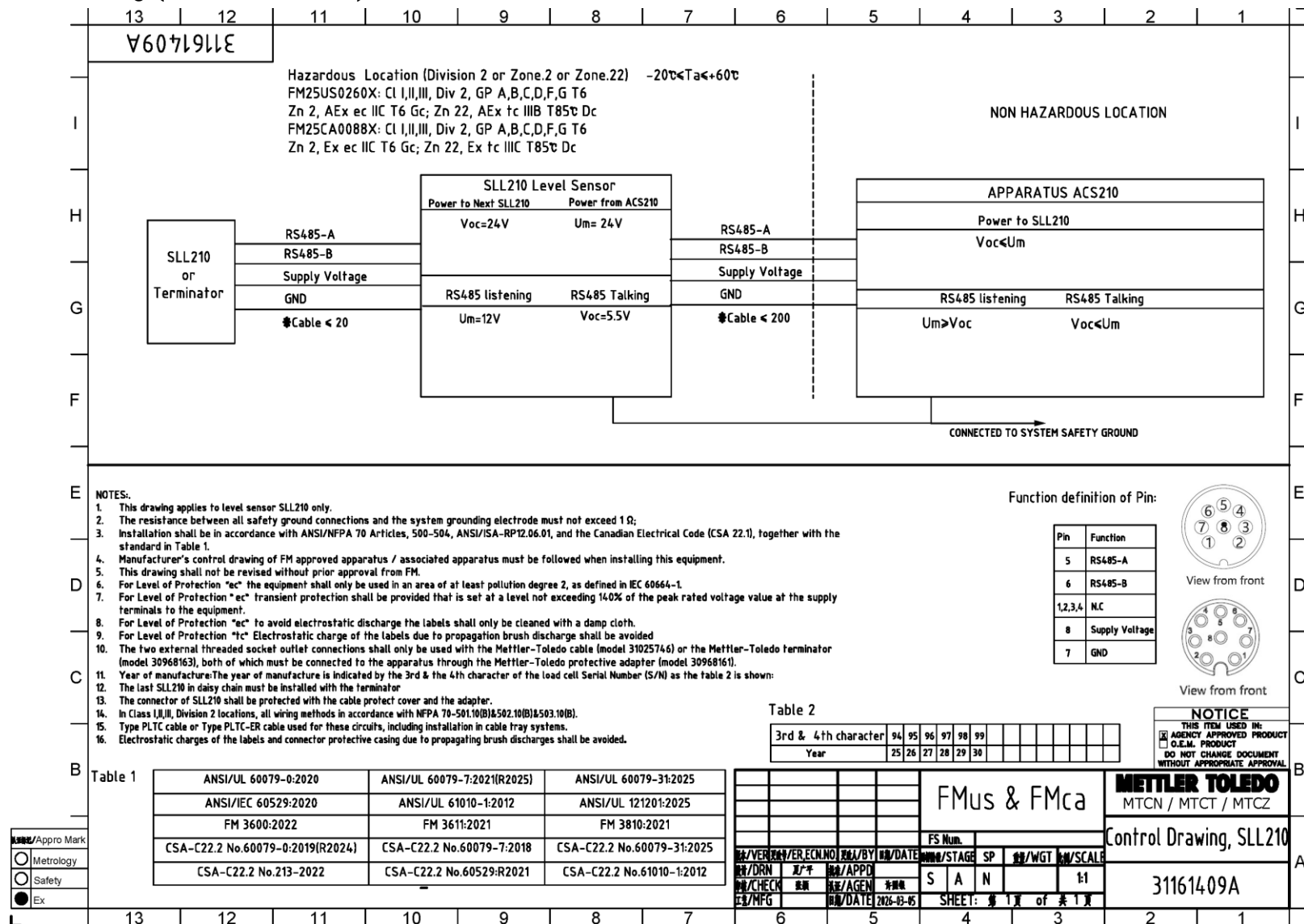
8.1.5 Global and International (IECEx)

FM. has issued an IECEx Certificate of Conformity indicating compliance of the SLL210 AnyLevel™ sensor with IECEx Certification Scheme for Explosive Atmospheres. Review this certificate for details of the approval. The certificate for this approval can be found at <https://www.mt.com/us/en/home/search/compliance.html>

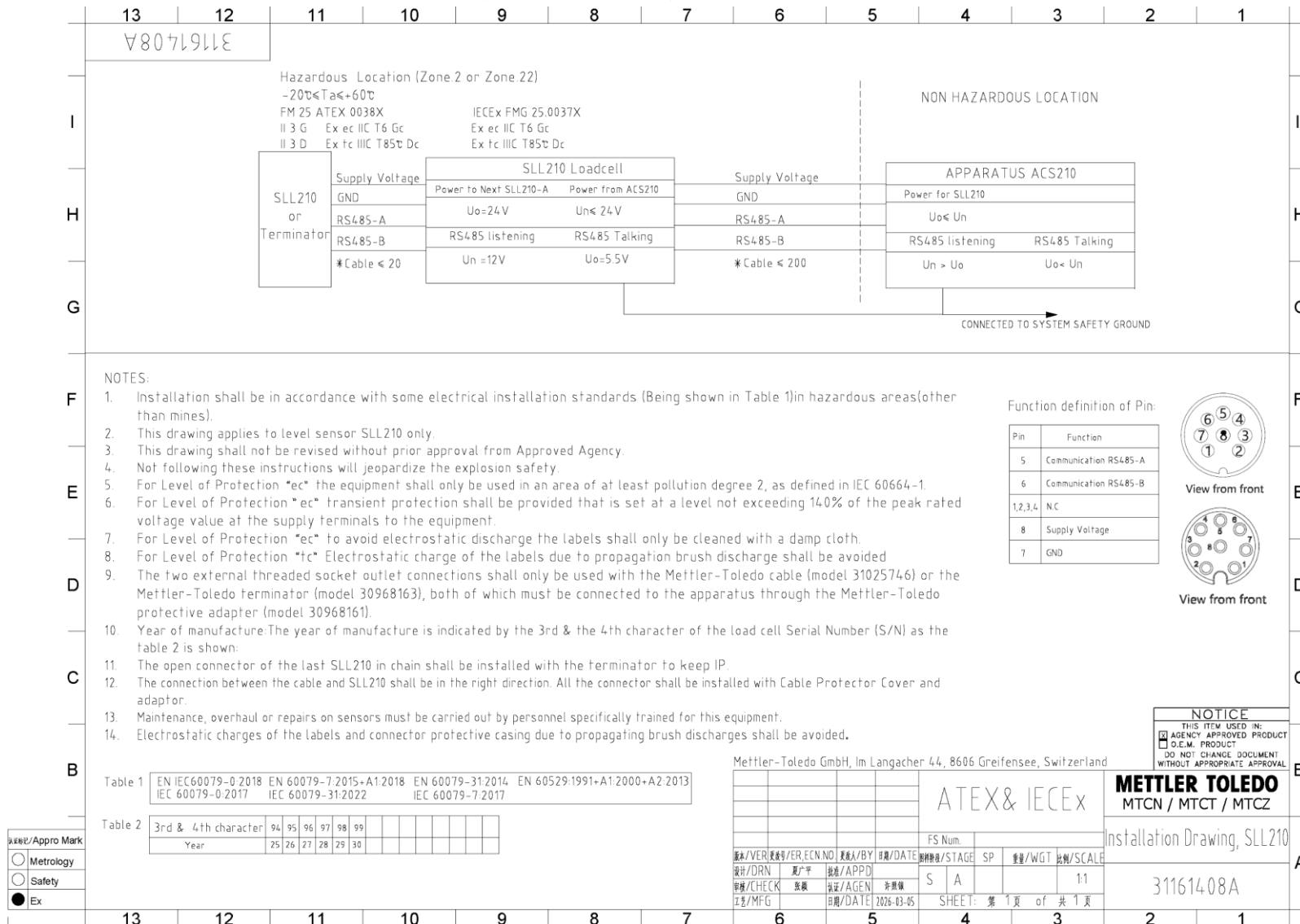
8.1.6 Installation Drawing (ATEX and IECEx)

The installation drawing 31161408A is a guide for installation and connection of the SLL210 AnyLevel™ sensor when used in a Zone 2 or Zone 22 hazardous area based on the ATEX or IECEx approval. Review this drawing before installation. If there are any questions regarding the details in the drawing, please contact the local METTLER TOLEDO representative. Refer to section 8.1.8 Global and International Installation Drawing (ATEX and IECEx) for the drawing.

8.1.7 Control Drawing (FMUS and FMCA)



8.1.8 Global and International Installation Drawing (ATEX and IECEx)



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