Safe Communication
with the ACM200

Globally recognized approvals
certify the ACM200 as a non-hazardous area accessory, making it available for use worldwide.

Safe connection
over intrinsically safe current loop in the hazardous area, allows for fast, bi-directional communication without the need for additional signal barriers.

Flexible connectivity
provides an increased range of options for communicating critical weight data to devices in the non-hazardous area, including remote terminals, PCs, printers and PLCs.

Industrial housing
is constructed of stainless steel and certified IP66. The housing will withstand harsh environments, and includes integrated mounting brackets to simplify installation.

ACM200 Communication Module

The ACM200 accessory communication module exists to expand the capabilities and connectivity of METTLER TOLEDO industrial terminals in hazardous area applications.

The ACM200 is designed for installation only within the non-hazardous area. The module provides a safe communication link between the terminal in the hazardous area and non-hazardous area peripheral devices such as PCs, printers or another METTLER TOLEDO terminal.

METTLER TOLEDO
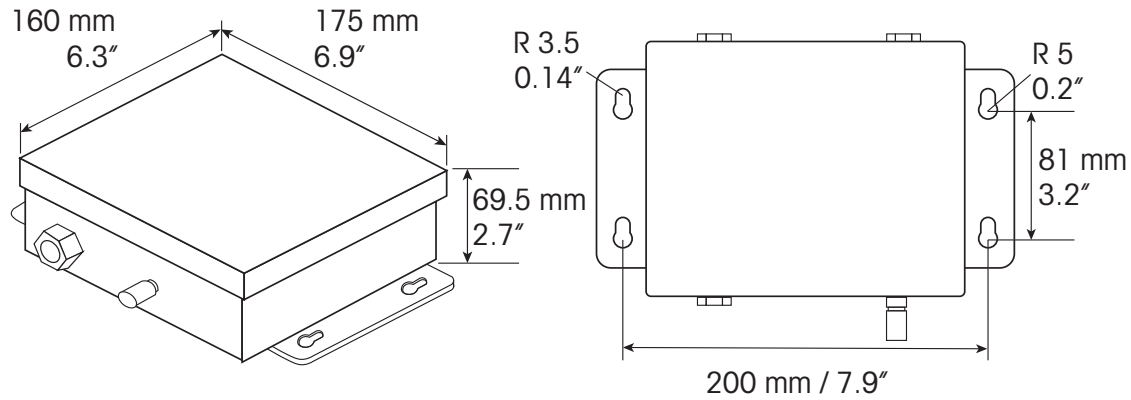
ACM200 communication module

Features and Benefits

- Communicate via an intrinsically safe current loop connection (up to 300m distance from terminal). This interface offers a dual-channel communication port:

	Communication
Demand Printing	x
METTLER TOLEDO continuous	x
Continuous Template	x
Report Printing	x
Remote Display	x
ASCII Input	x
CPTZ Printing	x
SICS	x
Totals Report Printing	x

- The interface installed in the ACM200 is configured from within the terminal's user-friendly setup menu.

	Interface slot	Expansion slot
Intrinsically safe current loop	x	
Serial -- RS232, RS422/RS485, RS422-Plug, or CL20mA		x

160 mm 6.3″   175 mm 6.9″   R 3.5 0.14″   R 5 0.2″   81 mm 3.2″   69.5 mm 2.7″   200 mm / 7.9″

Technical Specifications

Enclosure Dimensions (H x W x D)	160 x 175 x 69.5 mm (6.3 x 6.9 x 2.7 in.)
Overall footprint (Y x Z)	Includes integrated mounting brackets: 225 x 160 mm (8.9 x 6.3 in.)
Shipping weight	3.4 kg (7.5 lb) approximate gross
Enclosure construction/ environmental protection	304 stainless steel enclosure, certified IP66
Operating environment	-10° to 40° C (14° to 104° F) at 10% to 85% relative humidity, non-condensing
Storage environment	-20° to 60° C (-4° to 140° F) at 10% to 85% relative humidity, non-condensing
Power AC	With wide-range power supply: Operates at 100-240 VAC, 50/60 Hz, 250 mA Integrated universal power supply; includes cord for country of use
DC	Without wide-range power supply: 24 VDC

Connection to terminal	Maximum distance from terminal: CL – 300m (1000 ft)
	    Maximum distance from ACM200 to peripheral device:
	        RS232 – 10 m (33 ft)
	        RS422/485 – 100 m (330 ft)
	        RS422-Plug, CL20mA – tbd
	Maximum 115k baud communication rate between ACM200 and terminal

Hazardous area approvals	FM - US/Canada AIS Class I,II,III Division 1 Groups A, B, C, D, E, F, G
	ATEX II (2) G [Ex ib Gb] IIC II (2) D [Ex ib Db] IIIC
	IECEx [Ex ib Gb] IIC [Ex ib Db] IIIC
	FM - US Cert. No. FM17US0172 FM - Canada FM17CA0090 ATEX Cert. No. BVS 07 ATEX E 149 IECEx Cert. No. IECEx BVS 11.080

ACM200 Products

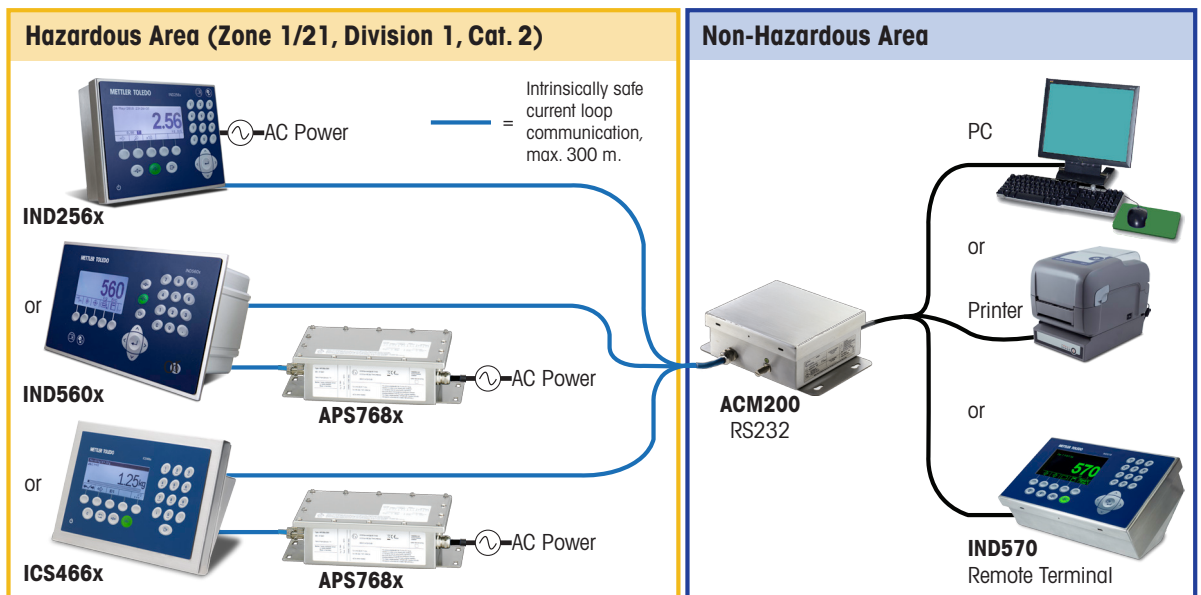| Material	Base Model	Interfaces	Designation
22026695	ACM200-AC	RS232	To provide RS232 data interface
22026696		RS422/485	To provide RS422/RS485 data interface
22026697		CL20mA	To connect to an IDnet terminal
22026692	ACM200-DC	RS232	To provide RS232 data interface
22026693		RS422/485	To provide RS422/RS485 data interface
22026694		CL20mA	To connect to an IDnet terminal
30404410		RS422-Plug	To connect to a SICSpro terminal

ACM200 Accessories

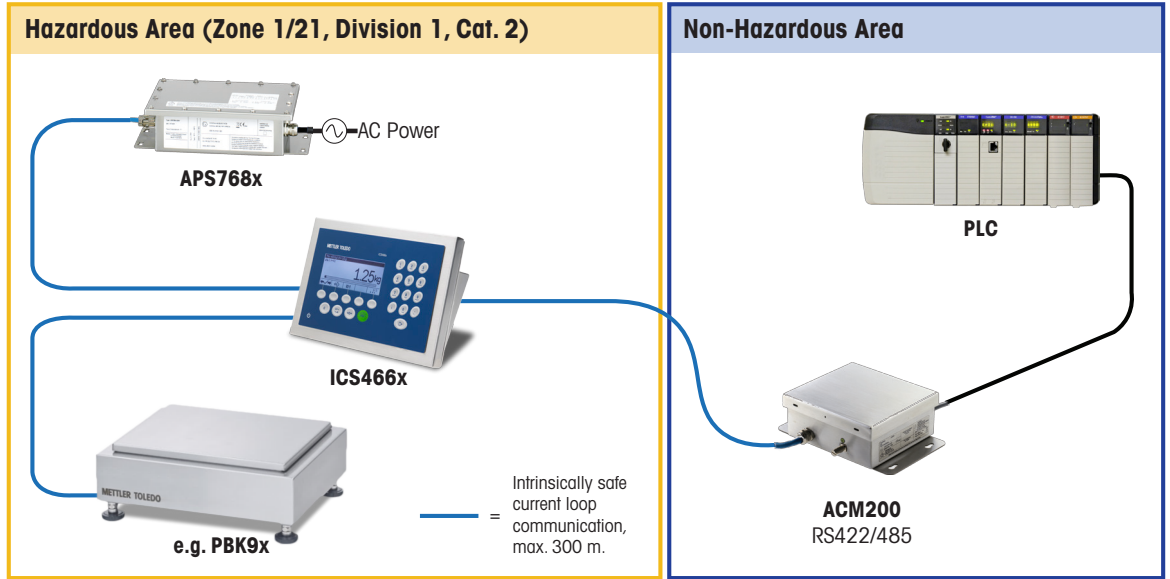| Material	Description
22016791	Cable EX-I 100m (2x2x0,5qmm)
22006709	Cable Bushes H0 5/14 100pcs.
22006708	ACCESSORY,Cable screw connection M16x1,5
22020598	W&M sealing Kit (IND560 desk)
22026963	Converter ACC409xx
22026728	APS768x-CL/CL-230V
22026724	APS768x-CL/CL-120V

System Layout Examples

The ACM200 is an Associated Intrinsically Safe Apparatus. This means that it must be located in the Non-Hazardous Area. The ACM200 can be directly connected with the devices in the Hazardous area via intrinsically-safe current loop.

ACM200 - AC/DC - RS232

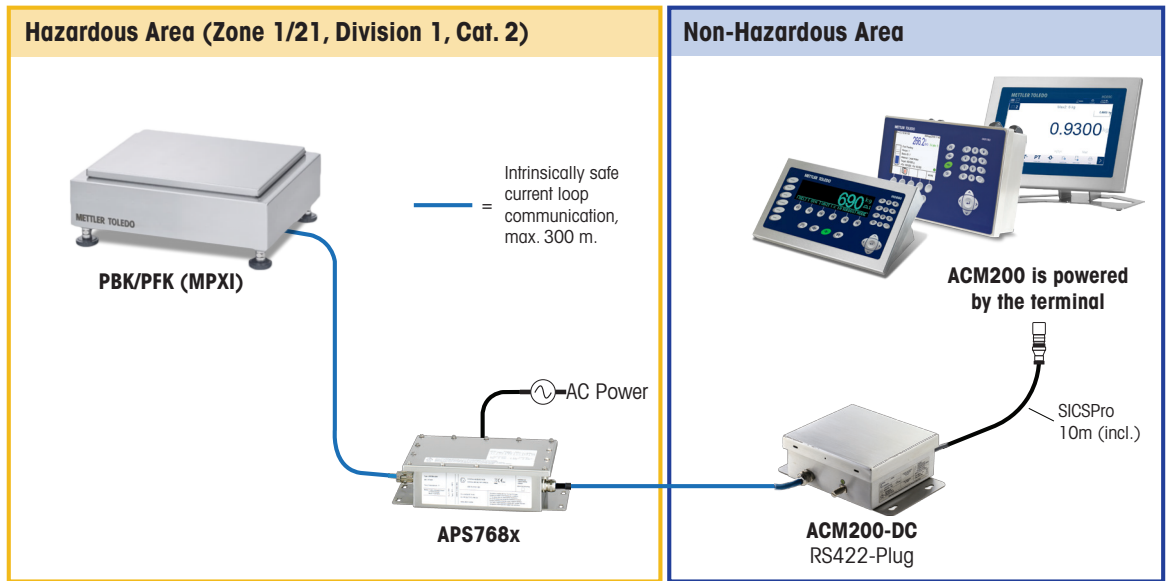
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ACM200 - AC/DC - RS422/485

Hazardous Area (Zone 1/21, Division 1, Cat. 2)

APS768x — AC Power

ICS466x

e.g. PBK9x

= Intrinsically safe current loop communication, max. 300 m.

Non-Hazardous Area

PLC

ACM200 RS422/485

ACM200 - DC - RS422 - Plug

Hazardous Area (Zone 1/21, Division 1, Cat. 2)

PBK/PFK (MPXI)

= Intrinsically safe current loop communication, max. 300 m.

APS768x — AC Power

Non-Hazardous Area

ACM200 is powered by the terminal

SICSPro 10m (incl.)

ACM200-DC RS422-Plug

www.mt.com

for more information