IND131xx / IND331xx

Basic Process Terminal

COMMERCIAL

Approvals:

- NTEP Class III/IIIL, 10,000d, COC #09-051
- Measurement Canada Approval Class II, 100,000d, Class III / IIIHD, 10,000d/ 20,000d; #AM-5819
- OIML: Class III, 6000e
- Factory Mutual (FM) Class I,II,III; Division 2; Groups A, B, C, D, E, F, & G; N.E.C. Temperature Rating T5A

CLASSIFY WARNING! DO NOT CLASSIFY THE HAZARDOUS AREA

Standard Features:

- Approved for installation in Division 2 hazardous areas (See installation manual and FM control drawing for requirements)
- Three Enclosure options: DIN rail mount, Panel Mount, and JBox
- Supports four 350Ω load cells (or eleven 1000 ohm cells)
- Bright and crisp OLED display
- Embedded logic for simple material transfer
- One RS232 serial port (COM1)
- TraxDSP™ digital filtering and TraxEMT™ maintenance features
- Optional solid state internal discrete I/O

IND131/ IND331 Model Configuration

Terminal Type	Enclosure Type	Scale Type	Reserved	Discrete I/O	PLC Interface	Reserved	Power Option	Market
13,33	B,D,P	1	0000	0,C	0,A,B,D,E,P	00	4,5	00

3 3 P 1 0 0 0 0 C A 0 0 4 0 0

Ordering Information

Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
IND131 / IND331 Enclosure and Scale Type (select one)			
13B1	IND131xx Jbox Enclosure with 4 cell summing board, Analog scale interface, 5mm OLED display (No trim pots)		$1,441
13D1	IND131xx DIN Rail mountable, Analog Scale interface, 5mm OLED display		$1,012
33P1	IND331xx Panel mountable, Analog scale interface, 12mm OLED display		$1,249
Reserved			
0000	Reserved		$0
IND131 / IND331 Discrete I/O and Second Serial Port (select one)			
0	None		$0
C	Local discrete 2 input / 4 output (solid state outputs) and second serial port COM2 (RS232/RS485)		$176
IND131 / IND331 PLC Interface (select one)			
0	No Output Option		$0
A	Analog Output (4-20 mA)		$407
B	ALLEN-BRADLEY™ RIO Interface		$523
C	ControlNet		$770
D	DeviceNet		$523
E	EtherNet/IP (Class 1 messaging only) (Connection to PLC) and Modbus TCP		$770
P	PROFIBUS® DP Interface		$523
Reserved			
00	Reserved		$0
Power Option (select one)			
4	24VDC input power, Division 2 approved **(DIN and Panel Mount versions)**		$0
5	24VDC input power, Division 2 approved with conduit hubs **(JBOX version)**		$0
Market			
00	Global		$0

IND131xx / IND331xx

IND131 / IND331 Option Kits				
Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
72225752	72225752	All Enclosures: Local discrete 2 input / 4 output (Solid state outputs) and COM2 (RS232/RS485)		$182
72225754	72225754	Analog Output kit (4-20 mA) for IND131/IND331		$473
71209098	71209098	ALLEN-BRADLEY™ RIO Interface kit		$600
64057423	64057423	ControlNet Option Board		$781
72193580	72193580	DeviceNet Option Board		$600
64058677	64058677	EtherNet/IP (Class 1 messaging only) (Connection to PLC) and Modbus TCP		$781
72235362	72235362	PROFIBUS® DP Interface for IND131/IND331		$600
IND131 / IND331 Accessories				
72229289	72229289	SD Memory Card		$35
72234649	72234649	W&M Sealing Kit		$13
64083629	64083629	Division 2 Approved 24VDC Power Supply		$273

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IND560

IND560 Desk

IND560 Division 2

Weighing Terminal

APPLIED

Approvals:

- NTEP Class III/IIIL, 10,000d, Class II 100,000d COC #05-057A2
- Measurement Canadal: Class II 100,000d; Class III 10,000d, Class III HD 20,000d: #AM-5593
- UL Div 2 Approval: US & Canada: Class I, II, III; Div 2; Groups A-D, F, and G T4; Ta=40ºC SEE DOCUMENTATION FOR DETAILS PDX Version is not Hazardous approved

Standard Features:

- Approved for installation in Division 2 hazardous areas (See installation manual and FM control drawing for requirements)
- IP65 Panel-mount or a IP69k Desk Harsh Environment model
- Supports eight 350Ω load cells or an IDNet base
- Bright 43 mm graphical VFD display with 21 mm weight display
- Embedded logic for material transfer and over/under mode
- One Serial Port
- Memory tables for 25 targets and 25 tare values
- TraxDSP™ digital filtering and TraxEMT™ maintenance features

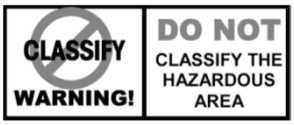
Ordering Information

IND560

Analog and IDNet versions of the standard IND560 are approved for division 2 applications

Subject to requirements and limitations as detailed in the IND560 Installation Manual and FM control drawing

Please see the Insturmentation section, page IN-16, for configuration and pricing



IND780

Division 2 Area Weighing Terminal

IND780 Panel Mount

APPLIED

Approvals:

- NTEP Class III/IIIL 10,000d; Class II 100,000d; COC #06-017
- Measurement Canada Approval: Class II, 100,000d, Class III / IIIHD, 10,000d/ 20,000d; #AM-5592
- UL Div 2 Approval: US & Canada: Class I, II, III; Div 2; Groups A-D, F, and G T4; Ta=40ºC SEE DOCUMENTATION FOR DETAILS

Standard Features:

- Desk/Wall or Panel Enclosure
- One RS232 Serial Port
- One RS232/422/485 Serial Port
- One Ethernet TCP/IP Port (Connection to PC)
- Graphical backlit Color LCD display
- 5 user selectable soft keys, CTPZ, and 4 application keys
- Flexible print templates
- Multiple Serial protocols for easy connectivity
- USB Master for external keyboard

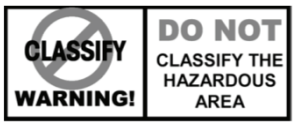
Ordering Information

IND780

The standard IND780 is approved for division 2 applications (some options excluded)

Subject to requirements and limitations as detailed in the IND780 Installation Manual and FM control drawing

Please see the Insturmentation section, page IN-18, for configuration and pricing



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IND226x

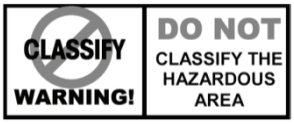
IND226x

Intrinsically Safe Weighing Terminal

CONSULTATIVE

Approvals:

- NTEP Class III/IIIL 10,000d #06-053
- Measurement Canada Approval #AM-5646
- FM/cFM: Class I, II, III; Division 1; Group A, B, C, D, E, F, G; T4 Ta = 40ºC
- ATEX: II 2 G Ex ib IIC T4 (Gas); II 2 D Ex tD A21 IP66 T 60ºC (Dust)



Standard Features:

- Bright green, 6-digit, 1.2" LED weight display
- Supports four analog 350Ω load cells (5VDC excitation)
- One-touch keys for clear, tare, print, zero, and function
- Harsh stainless steel, IP66 enclosure

Software Application Modes:

- Basic Weighing
- Over/Under checkweighing software built-in
- Manual filling
- (No counting)

Special Features

- MinWeigh® warning function
- CalFREE™ calibration without testing
- Over/Under mode
- Battery saving sleep mode/standby function
- Remote display function
- Remote terminal
- 1 standard input for Clear, Tare, Print, Zero
- 3 point linearity adjustment

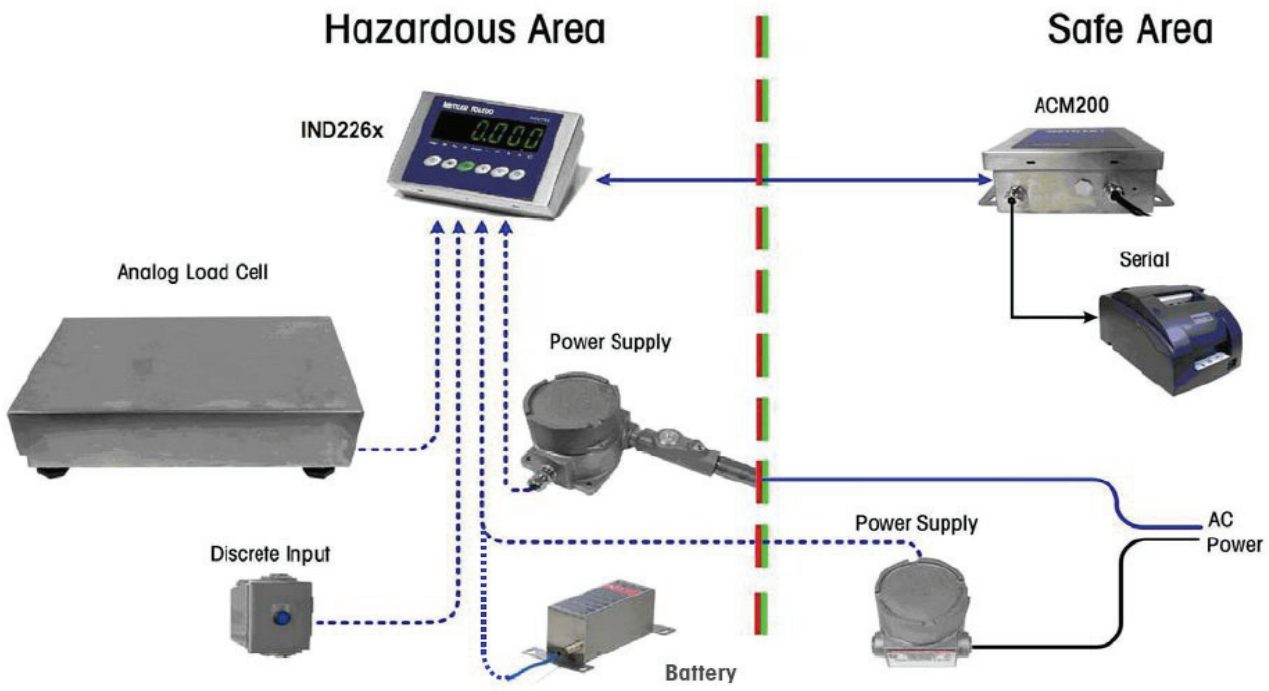
Ordering Information

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
IND226x Intrinsically Safe Weighing Terminal				
72210052	72210052	IND226x (Order power supply or battery separately)		$1,293
64062682	64062682	IND226x with Interface-IND Installed (for use with ACM200 or as master for remote IND226x)		$1,458
64062683	64062683	IND226x with Interface-Remote Installed (for use as remote display for IND226x or IND560x)		$1,535
IND226x Interface Options				
72204204	72204204	Interface - IND Option Kit for connection to ACM200 or Remote Option Kit (with cord grip)		$171
72207583	72207583	Interface - Remote Option Kit to use IND226x as secondary display in hazardous		$242
IND226x Power Supply Options (Ordered separately. Not included in model configuration of IND226x)				
64056319	64056319	APS500 (External Ex 120V Power Supply - 3 m blue cable included)		$770
64058025	64058025	APS501 (External Ex 240V Power Supply - 3 m blue cable included)		$770
64056504	64056504	APS500/501 bulk blue cable, per foot (requires Junction Box below)		$1.37
TB100448	72999960	Junction Box for APS500/501 blue cable extension		$261
64060627	64060627	External NiMH Ex Battery (Includes cable)		$874
64060625	64089703	External NiMH Ex Battery (Spare - no cable)		$845
64060217	64060217	Safe Area Battery Charger (US Plug)		$374
64060490	64060490	Safe Area Battery Charger (Export)		$403
IND226x Communication Module				
72223667	72223667	ACM200 Safe Area Communication Module (Includes 10 m Ex-i, 4 core current loop communication cable and 10m serial cable with 9 pin D-Sub plastic connector)		$506
72215012	72215012	RS232 Serial Cable (10 m with 9 pin D-Sub Female connector - SAFE area use o		$58
Blue Ex-i Cable Current loop Cable - 2 x 2 x 0.5mm, (2 twisted pair, 20 AWG with 0.25mm conductor insulation)				
64069050	64069050	Blue Ex-i Cable (order by the foot) UL	1 lb	$4.15

IND226x

IND226x Mounting Accessories

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
22010334	22010334	Column, 330 mm		$400
22010335	22010335	Column, 660 mm		$534
504132	504132	Floor Stand, Stainless Steel - 400 x 500 mm		$857
503701	503701	Floor Stand Base, Stainless Steel - 600 x 800 mm		$447
504127	504127	Pillar Support, Enameled		$389
504128	504128	Pillar Support, Stainless Steel		$746
72204997	72204997	IND226 Simple Stainless Steel Tilt and Swivel Bracket with M8 Hole		$74
22015188	22015188	IND226 Stainless Steel Tilt and Swivel Bracket with M8 Hole		$120



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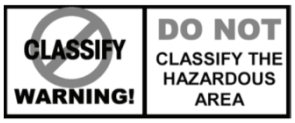
ACM200

Safe Area Communications

CONSULTATIVE

Approvals: *ACM200 approval for safe area installations only*

- FM US & Canada: AIS, Class I, II, III; Div 1; Groups A-G; Entity; IP66
  AIS = Associated apparatus with intrinsically safe connection



Standard Features:

- Safe area communication link to the IND226x in the hazardous area over intrinsically safe current loop
- Fast bi-directional communication to and from the hazardous area
- Integrated universal power supply

- When used with the APS768x with current loop, the ACM200 can be used for communication with a hazardous area K-Base, ViperEX, or APW Ex Module

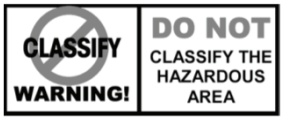
Ordering Information

ACM200 Communication Module

Order Number		Description	Shipping Weight (lb)	Suggested List Price (CDN$)
72223667	72223667	ACM200 Safe Area Communication Module (Includes 10 m Ex-i, 4 core current loop communication cable and 10m serial cable with 9 pin D-Sub plastic connector)		$506
ACM200CL	63079627	ACM200 Safe Area Communication Module with Current Loop / RS422 / RS485 interface Includes data interface connection cable, IDNet plug, 10 m length and Ex-i connection cable (4-wire), 10 m length		$875
72215012	72215012	RS232 Serial Cable (10 m with 9 pin D-Sub Female connector - SAFE area use only)		$58
Blue Ex-i Cable Current loop Cable - 2 x 2 x 0.5mm, (2 twisted pair, 20 AWG with 0.25mm conductor insulation)				
64069050	64069050	Blue Ex-i Cable (order by the foot) UL	1 lb	$4.15

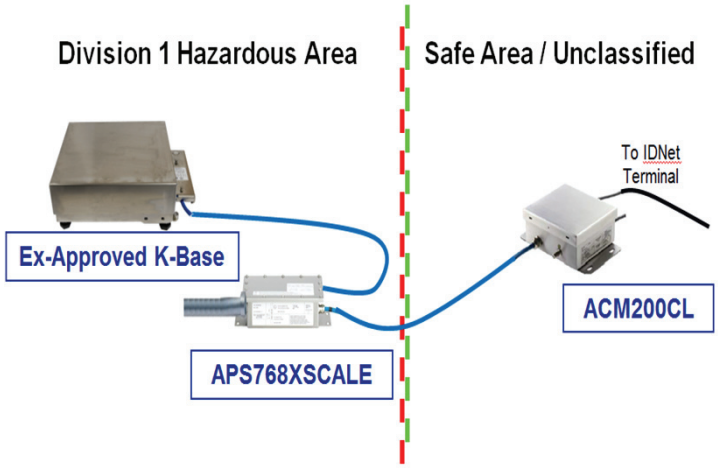
APS768x / ACM200 Interface Solutions

Application Examples



CONSULTATIVE

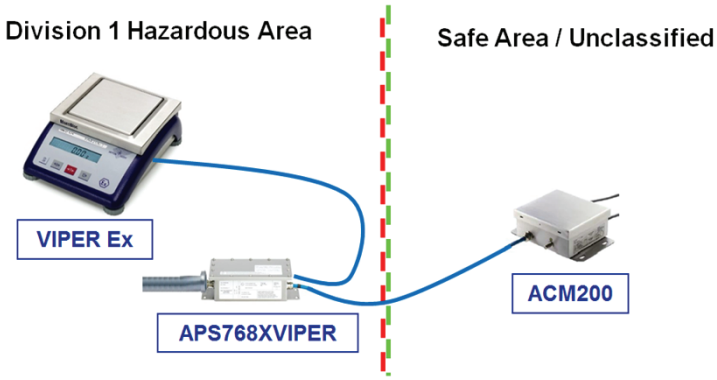
Hazardous Area K-Base with Safe Area Terminal



Example Item #	Description
KA15sx-T4	KA Hazardous area approved High Precision Base
APS768XSCALE	APS768x power supply with Current Loop Interface
ACM200CL	ACM200 communication accessory with safe area IDNet connection to Safe Area Terminal
56H400000000A00	IND560 Harsh with IDNet connection (not pictured)

Additional cable or accessories may be required for your specific application

ViperEx with RS-232 connection to the Safe Area



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Example Item #	Description
ViperEXMBPM3	ViperEx
APS768XVIPER	APS768x power supply with Current Loop Interface
72223667	ACM200 communication accessory with RS-232 Connection to Safe Area Device

Additional cable or accessories may be required for your specific application

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IND560x

Intrinsically Safe Weighing Terminal

CONSULTATIVE

Approvals:

- NTEP Class III/IIIL, 10,000d, Class II 100,000d COC #05-057A2
- OIML Class II resolution determined by platform approval; Class III, 10,000e; TC6812 Rev 5
- FM US & Canada: IS, Class I, II, III; Div 1; Groups A-G T4; Ta=-10ºC to +40ºC, IP65, Type 4; I/1/AEx ib IIC T4

Standard Features:

- Type 4x/12 Panel-mount or IP69k Desk Harsh Environment model
- Supports single Analog or IDNet base
- Large Backlit LCD graphical Display
- Embedded logic for material transfer and over/under mode
- One Intrinsically Safe RS-232 Serial Port
- Memory tables for 25 targets and 25 tare values
- TraxDSP™ digital filtering and
- TraxEMT™ maintenance features

Optional Features:

- APS768x powered version or hazardous area battery powered version
- Optional mounting brackets available
- Optional Active or Passive internal digital I/O with latched or unlatched outputs
- ACM500 Module provides IND560x connectivity for add'l Serial ports, Ethernet TCP/IP, and PLC interfaces (ordered separately)
- Optional Application Modules for vehicle, filling , legacy communications, and custom programming (TaskExpert)

CLASSIFY WARNING! DO NOT CLASSIFY THE HAZARDOUS AREA

IND560x Model Configuration

Terminal Type	Enclosure Type	Scale Type	Reserved	Interface	Discrete I/O	Reserved	Application Software	Module	Power Option
56	X,Y	5,7	000	0,E,F	0,E,F,G	0	0,F,V	0,1,2	000, 200

5 6 X 5 0 0 0 E E 0 F 0 2 0 0

Ordering Information

IND560x Enclosure and Scale Type (select one)

Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
56X5	Harsh/Desk Enclosure with Analog Scale Interface		$1,749
56X7	Harsh/Desk Enclosure with IDNet Scale Interface (not available with battery option)		$1,997
56Y5	Panel Mount Enclosure with Analog Scale Interface (not available with battery option)		$1,876
56Y7	Panel Mount Enclosure with IDNet Scale Interface (not available with battery option)		$2,123

Note: Power Supply or Battery are Sold Separately

IND560x Interface Ports to ACM500 (select one) Required if using the ACM500

0	None	$0
E	Current Loop Interface, Dual Channel	$286
F	Fiber Optic Interface, Dual Channel (requires 2 cables per channel)	$286
	Note: Cable options listed on ACM500 accessories page HA-10	

IND560x Local (Internal) Discrete I/O (select one)

0	None	$0
E	4 Active Inputs / 6 Active Outputs (not available with battery option)	$567
F	4 Active Inputs / 6 Passive Outputs	$567
G	4 Passive Inputs / 6 Passive outputs	$567

IND560x Application Software (select one)

0	No Output Option	$0
F	Fill-560 filling and blending hardware key	$424
V	Drive-560 Inbound/Outbound Vehicle Software	$242

IND560x

IND560x Module Options (select one)		
0	Basic functionality	$0
1	TaskExpert	$473
2	Com-560 host protocol emulation, custom strings, Toledo continuous short	$303

IND560x Power Options (select one)		
0	Powered by Hazardous Area Power Supply (APS768x sold separately)	$0
2	Powered by Hazardous Area Battery (Battery & charger sold separately) (Analog/Harsh Enclosure Only)	$330

IND560x Power Supply Options (Order Separately. Not included in Model Configuration of IND560x)

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
22021261	22021261	APS768x (120V Power Supply) (see APS768x price page HA-14 for product details)		$1,408
		Ships with 16 ft of 9 conductor Blue Ex-i cable and cord grip. See Accessories page HA-10 for additional cable.		
64060627	64060627	External NiMH Ex Battery (Includes 3m cable)		$874
64060625	64089703	External NiMH Ex Battery (Spare - no cable)		$845
64060217	64060217	Safe Area Battery Charger (US Plug)		$374
64060490	64060490	Safe Area Battery Charger (Export)		$403
IND560x Accessories				
71209353	71209353	Wall Mounting Bracket (pair - fixed angle)		$60
22015188	22015188	Stainless Steel tilt and swivel bracket with M8 hole		$120
72234642	72234642	Weights & Measures Sealing Kit		$38
09640043000	64007275	Dual Channel Fiber Optics Converter; 115 VAC-60 Hz, No. Ameri		$601
IND560x Option Kits for PANEL MOUNT				
72237410	72237410	Current Loop Interface kit for PANEL		$286
72237411	72237411	Fiber Optic Interface kit for PANEL		$286
72237412	72237412	Active Input - Active Output I/O option for PANEL (not available with battery optior		$567
72237413	72237413	Active Input - Passive Output I/O Option for PANEL		$567
72237414	72237414	Passive Input - Passive Output I/O for PANEL		$567
IND560x Option Kits for HARSH ENCLOSURE				
72237415	72237415	Current loop Interface kit for HARSH		$286
72237416	72237416	Fiber Optic Interface kit for HARSH		$286
72237417	72237417	Active Input - Active Output I/O option for HARSH (not available with battery option)		$567
72237418	72237418	Active Input - Passive Output I/O Option for HARSH		$567
72237419	72237419	Passive Input - Passive Output I/O for HARSH		$567
72251543	72251543	Battery Option PCB (Harsh enclosure only) (Only for units manufactured AFTER June 2011)		$330
IND560 Application Software				
64055811	64055811	Fill-560 filling and blending hardware key		$424
64062647	64062647	Com-560 host protocol emulation, custom strings, Toledo continuous short		$303
64062793	64062793	Drive-560 Inbound/Outbound Vehicle Software		$242
64061204	64061204	TaskExpert custom programming module for IND560		$473

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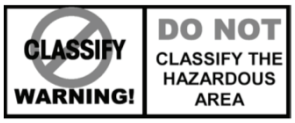
ACM500

Safe Area Communications Module for the IND560x

CONSULTATIVE

Approvals: *ACM500 approval for safe area installations only*

- FM US & Canada: AIS, Class I, II, III; Div 1; Groups A-G; Entity; IP66
  AIS = Associated apparatus with intrinsically safe connection



Standard Features:

- Safe area communication link to the IND560x in the hazardous area over fiber optic or intrinsically safe current loop
- Fast bi-directional communication to and from the hazardous area
- Integrated universal power supply
- Communication options consistent with IND560

ACM500 Model Configuration

Type	IND560x Interface	Ethernet/ Serial	PLC Interface	Power Option
ACM500	E,F	0,A	0,A,B,D,E,R	A
ACM500	E	A	A	A

Ordering Information

Type

Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
ACM500	ACM500 Safe Area Communications Module for the IND560x		$814
ACM500 Interface Port (Select One) Must match interface port type used in IND560x			
E	Current Loop Interface, Dual Channel		$0
F	Fiber Optic Interface, Dual Channel (requires 2 cables per channel)		$0
ACM500 Ethernet/Serial Ports			
0	No option		$0
A	Two (2) Serial ports and one (1) Ethernet TCP/IP Port (connection to a PC)		$242
ACM500 PLC Interface			
0	No option		$0
A	Analog Output (4-20 mA or 0-10 V)		$600
B	ALLEN-BRADLEY™ RIO Interface		$600
D	DeviceNet		$600
E	EtherNet/IP (Connection to PLC) and Modbus TCP		$781
R	PROFIBUS® DP Interface		$600
ACM500 Power Option			
A	120 VAC, North American plug		$0

ACM500 Option Kits (May be ordered individually)

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
71209095	71209095	Two (2) Serial ports and one (1) Ethernet TCP/IP Port (connection to a PC)		$242
71209099	71209099	Analog Output (4-20 mA or 0-10 V)		$600
71209098	71209098	ALLEN-BRADLEY™ RIO Interface		$600
72193580	72193580	DeviceNet		$600
64058677	64058677	EtherNet/IP (Connection to PLC) and Modbus TCP		$781
71209096	71209096	PROFIBUS® DP Interface		$600

IND560x and ACM500 Accessories

IND560x and ACM500 Accessory Cables

Order Number	SAP Order Number	Description	Agency Approved	Shipping Weight (lb)	Suggested List Price (CDN$)
09640043000	64007275	Dual Channel Fiber Optics Converter; 115 VAC-60 Hz, No. American plug		5 lb	$601
Plastic Core Fiber Optic Cable (UL rated for OFNP). Maximum distance 100 ft. Can be spliced or terminated in the field. ACM500 Requires two (2) cables for each interface port.					
09000268000	64007353	50 ft (15 m), plastic core, connectors both ends	UL	1 lb	$105
09000269000	64007354	100 ft (30 m), plastic core, connectors both ends	UL	2 lb	$174
09640054000	64007314	Bulk, 500 ft (150 m); plastic core, no connectors	UL	5 lb	$833
09640053000	64007315	Splice/Termination kit for **Plastic Core** FO cable; contains 16 connector ends		2 lb	$121
Glass Core Fiber Optic Cable (UL rated for OFNP). Maximum distance 1000 ft. Cannot be spliced or terminated in the field (requires special tools). ACM500 Requires two (2) cables for each interface port					
09600189050	64007616	50 ft (15 m), glass core, connectors both ends	UL	1 lb	$120
09600189100	64007615	100 ft (30 m), glass core, connectors both ends	UL	2 lb	$226
09600189150	64007614	150 ft (45 m), glass core, connectors both ends	UL	3 lb	$334
09600189200	64051900	200 ft (60 m), glass core, connectors both ends	UL	4 lb	$438
09600189250	64007612	250 ft (76 m), glass core, connectors both ends	UL	5 lb	$546
09600189300	64007611	300 ft (91 m), glass core, connectors both ends	UL	6 lb	$658
09600189350	64007610	350 ft (107 m), glass core, connectors both ends	UL	7 lb	$766
09600189400	64007609	400 ft (122 m), glass core, connectors both ends	UL	8 lb	$875
09600189450	64007608	450 ft (137 m), glass core, connectors both ends	UL	9 lb	$982
09600189500	64007607	500 ft (152 m), glass core, connectors both ends	UL	10 lb	$1,089
09600189550	64007606	550 ft (168 m), glass core, connectors both ends	UL	11 lb	$1,201
09600189600	64007605	600 ft (183 m), glass core, connectors both ends	UL	12 lb	$1,319
09600189650	64007604	650 ft (198 m), glass core, connectors both ends	UL	13 lb	$1,428
09600189700	64007603	700 ft (213 m), glass core, connectors both ends	UL	14 lb	$1,526
09600189750	64007602	750 ft (229 m), glass core, connectors both ends	UL	15 lb	$1,635
09600189800	64007601	800 ft (244 m), glass core, connectors both ends	UL	16 lb	$1,745
09600189850	64007600	850 ft (259 m), glass core, connectors both ends	UL	17 lb	$1,855
09600189900	64007599	900 ft (274 m), glass core, connectors both ends	UL	18 lb	$1,962
09600189950	64007598	950 ft (290 m), glass core, connectors both ends	UL	19 lb	$2,108
09600189999	64007597	1000 ft (304 m), glass core, connectors both ends	UL	20 lb	$2,178
Blue Ex-i Cable Current loop Cable - 2 x 2 x 0.5mm, (2 twisted pair, 20 AWG with 0.25mm conductor insulation) One (1) cable required for bi-directional communication on each interface port.					
64069050	64069050	Blue Ex-i Cable (order by the foot)	UL	1 lb	$4.15

PSUx Power Cable (connection from PSUx to IND560x)

Order Number	SAP Order Number	Description	Suggested List Price (CDN$)
22006707-FT	63061675	9 Conductor Blue Cable, per foot	$7.75

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APS768x

Intrinsically Safe Power Supply (PSUx replacement)

CONSULTATIVE

Approvals:

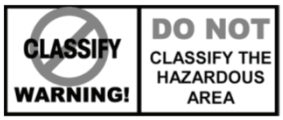
Factory Mutual (FM) US and Canada: Class I,II,III; Division 1, Groups A,B,C,D,E,F, & G; Temperature Class T4 -10°C ≤ Ta ≤ +40°C
Class 1, Zone 1, AEx me [ib] IIC T4 -10°C ≤ Ta ≤ +40°C

Standard Features:

- Direct Replacement for the PSUx (Equivalent functions and approvals)
- Stainless steel enclosure and integrated mounting hardware
- Provides power for one ID7sx, IND560x, IND226x, or Viper Ex

Ordering Information

Order Number	SAP Order Number	Description	Suggested List Price (CDN$)
APS768x/120V Intrinsically Safe Power Supply for Hazardous Areas			
22021261	22021261	APS768x - 120V model (120 VAC +10%/-15%, 50/60Hz). Power Supply for use in hazardous areas. Includes 16 ft (5 m) of blue terminal connection cable with M16 cable gland. 12" x 6.8" x 3.1" with 1/2 NPT conduit hub. Stainless Steel enclosure. IP66	$1,408
APS768x/120V Intrinsically Safe Power Supply With Communication Interface			
APS768XSCALE		APS768x-CL/CL-Scale. Standard APS768x with an additional CL-CL interface card installed. For use with the ACM200 as a communication solution for IDNet/Kbase or hazardous area APW module usage in hazardous areas with a terminal or PC located in the safe area.	$1,419
APS768XVIPER		APS768x-CL/CL-VIPER Ex. Standard APS768x with an additional CL-CL interface card installed. For use with the ACM200 as an RS-232 communication interface for the VIPER-Ex.	$1,419
APS768x Accessories			
22006707	22006707	9 conductor blue cable 328 ft (100 m) roll*	$822
22006707-FT	63061675	9 conductor blue cable, per foot price*	$7.75
22006709	22006709	Wire terminals for blue conductor cable (100 pieces)	$48



K-line

High Precision Hazardous Bases
KA/KB/KCC/KC/KCS 15-600 kg

CONSULTATIVE

Approvals

- Factory Mutual (FM) - Class I, II, III Division 1, Groups A-G

Standard Features

- MonoBloc Technology
- IP67 protection
- Measuring cell cable length 5 m
- Base and load plate included

Ordering Information

MultiRange-x Intrinsically Safe Series - Bench Scales

Order Number	SAP Order Number	OverallDimensions	Capacity/ Readability	Base Construction*	Shipping Weight (lb)	Suggested List Price (CDN$)
KA15sx-T4	22008462	13.8" x 11" (350 x 280 mm)	30 lb/0.0002 lb (15 kg/0.1g)	Stainless Steel	29 lb	$5,669
KA32sx-T4	22008463		70 lb/0.0002 lb (32 kg/0.1g)		29 lb	$6,118
KB60x.2-T4	22008464	20" x 16" (500 x 400 mm)	120 lb/0.002 lb (60 kg/1g)	Stainless Steel / Black Powder	77 lb	$5,451
KB60.2sx-T4	22008465		120 lb/0.002 lb (60 kg/1g)	Stainless Steel	77 lb	$7,649
KCC150x-T4	22008466	32" x 24" (800 x 600 mm)	300 lb/0.002 lb (150 kg/1g)	Stainless Steel / Black Powder	160 lb	$6,512
KCC300x-T4	22008468		600 lb/0.005 lb (300 kg/2g)		160 lb	$6,759
KCC150sx-T4	22008467		300 lb/0.002 lb (150 kg/1g)	Stainless Steel	160 lb	$8,866
KCC300sx-T4	22008469		600 lb/0.005 lb (300 kg/2g)		160 lb	$9,058

MultiRange-x Intrinsically Safe Series - Floor Scales

Order Number	SAP Order Number	Overall Dimensions	Capacity/ Readability	Base Construction*	Shipping Weight (lb)	Suggested List Price (CDN$)
KC300x-T4	22008470	39" x 32" (1000 x 800 mm)	600 lb/0.005 lb (300 kg/2g)	Hot Galvanized / Black Powder	251 lb	$8,660
KC600x-T4	22008474		1200 lb/0.02 lb (600 kg/10g)		251 lb	$10,258
KC300sx-T4	22008472		600 lb/0.005 lb (300 kg/2g)	Stainless Steel	251 lb	$12,122
KC600sx-T4	22008476		1200 lb/0.02 lb (600 kg/10g)		251 lb	$12,760
KCS300x-T4	22008471	32" x 32" (800 x 800 mm)	600 lb/0.005 lb (300 kg/2g)	Hot Galvanized / Black Powder	251 lb	$8,221
KCS600x-T4	22008475		1200 lb/0.02 lb (600 kg/10g)		251 lb	$8,680
KCS300sx-T4	22008473		600 lb/0.005 lb (300 kg/2g)	Stainless Steel	251 lb	$11,202
KCS600sx-T4	22008477		1200 lb/0.02 lb (600 kg/10g)		251 lb	$11,576

MultiRange-x Intrinsically Safe Series - Accessories

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
42101839	42101839	Power converter - required when any T4 MultiRange scale base is used with a GD13x or GD130x power supply.		$176

Built to order product. Lead time is 3-4 weeks

K-line accessories and load plates are located in BP and FS sections

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K-line

High Precision Hazardous Bases KD/KE/KES/KG 600-12,000 kg

CONSULTATIVE

Approvals

- Factory Mutual (FM) - Class I, II, III Division 1, Groups A-G

Standard Features

- MonoBloc Technology
- IP67 protection
- Measuring cell cable length 5 m

Ordering Information

MultiRange-x Intrinsically Safe Series - Floor and Pit Scales (base only) - ORDER LOAD PLATE IN FLOOR SCALE SECTION

Order Number	SAP Order Number	Overall Dimensions	Capacity/ Readability	Base Construction	Shipping Weight (lb)	Suggested List Price (CDN$)
KD600x-T4	22008478	49" x 39" (1250 x 1000 mm)	1200 lb/0.02 lb (600 kg/10 g)	Hot Dip Galvanized	500 lb	$10,806
KD1500x-T4	22008479		3000 lb/0.05 lb (1500 kg/20 g)		500 lb	$11,092
KE1500x-T4	22008480	59" x 49" (1500 x 1250 mm)	3000 lb/0.05 lb (1500 kg/20 g)	Hot Dip Galvanized	595 lb	$13,575
KE3000x-T4	22008482		6000 lb/0.1 lb (3000 kg/50 g)		595 lb	$14,322
KES1500x-T4	22008481	59" x 59" (1500 x 1500 mm)	3000 lb/0.05 lb (1500 kg/20 g)	Hot Dip Galvanized	656 lb	$15,055
KES3000x-T4	22008483		6000 lb/0.1 lb (3000 kg/50 g)		656 lb	$16,794
KG3000x-T4	22008484	79" x 59" (2000 x 1500 mm)	6000 lb/0.1 lb (3000 kg/50 g)	Black Powder Coat	1655 lb	Call
KG6000x-T4	22008486		12000 lb/0.2 lb (6000 kg/100		1655 lb	Call
KG3000gx-T4	22008485		6000 lb/0.1 lb (3000 kg/50 g)	Hot Dip Galvanized	1655 lb	Call
KG6000gx-T4	22008487		12000 lb/0.2 lb (6000 kg/100		1655 lb	Call

MultiRange-x Intrinsically Safe Series - Stainless Steel Liftdeck Scales (includes base and load plate)

Order Number	SAP Order Number	Overall Dimensions	Capacity/ Readability	Construction	Shipping Weight (lb)	Suggested List Price (CDN$)
KE1500Sx-T4		59" x 49" (1500 x 1250mm)	3000 lb/0.05 lb (1500 kg/20 g)	Tread Stainless Steel	900 lb	$40,230
KE3000Sx-T4			6000 lb/0.1 lb (3000 kg/50 g)		900 lb	$42,437
KE1500SxK-T4	22008490		3000 lb/0.05 lb (1500 kg/20 g)	Smooth Stainless Steel	900 lb	$40,230
KE3000SxK-T4	22008491		6000 lb/0.1 lb (3000 kg/50 g)		900 lb	$42,437
KES1500Sx-T4		59" x 59" (1500 x 1500mm)	3000 lb/0.05 lb (1500 kg/20 g)	Tread Stainless Steel	900 lb	$44,623
KES3000Sx-T4			6000 lb/0.1 lb (3000 kg/50 g)		900 lb	$47,013
KES1500SxK-T4	22008492		3000 lb/0.05 lb (1500 kg/20 g)	Smooth Stainless Steel	900 lb	$44,623
KES3000SxK-T4	22008493		6000 lb/0.1 lb (3000 kg/50 g)		900 lb	$47,013

MultiRange-x Intrinsically Safe Series - Accessories

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
42101839	42101839	Power converter - required when any T4 MultiRange scale base is used with a GD13x or GD130x power supply.		$176

K-line accessories and load plates are located in BP and FS sections
For Liftdeck models - Please clearly specify Smooth or Treaded load plate when ordering.

VIPER EX

Hazardous Area Scales

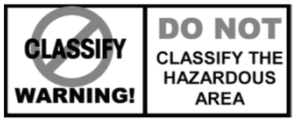
Viper EX PM

Viper EX SM

CONSULTATIVE

Approvals:

- **Viper EX**: FM Class I, Division 1, Groups ABCD; CSA Class I, Division 1, Groups ABCD
- **APS768xx/120V**: FM Class I, Div 1, Groups ABCD; Class II, Groups EFG; Class III; CSA Class I, Div 1, Groups ABCD; Class II, Groups EFG; Class III
- **PSU**: FM AIS Class I, Division 1, Group ABCD; Class II, Groups EFG; Class III; CENELEC II(2) G, D {EEx ib} IIC (no CSA)
- **PSUx/230V**: CENELEC II 2 G, D {EEx ib} IIC T4



Standard Features:

- Intrinsically safe for hazardous areas Class I, Division 1, Group A, B, C, D, T4
- Fast graphical display with back light
- Die-cast aluminum housing
- Zero, Tare, Print, Unit, and Clear key
- MonoBloc or standard load cell technology
- Viper Ex Power Supply (APS768x) Required - Order separately from next page

Options:

- 1 x RS232 interface (requires APS768XVIPER/ACM200CL system; order separately from next page)

In all circumstances, it is the user's responsibility to establish the correct classification of the hazardous area. METTLER authorized sales and service representatives are not permitted to participate in the classification of the customer's hazardous area. The user's insurance carrier may require that the user obtain specific approval for use of this equipment. The user assumes total responsibility and liability for submission and approval by the insurance carrier for use in a specific area.

Ordering Information

VIPER EX

Order Number	SAP Order Number	Capacity (lb/kg)	Resolution (lb/kg)	Platform Size	Shipping Weight (lb)	Suggested List Price (CDN$)
ViperEXPM3	21203949	7.5 lb/3 kg	0.0005 lb/0.0002 kg	7.9" x 9.5"	13 lb	$2,783
ViperEXPM6	21203950	12 lb/6 kg	0.001 lb/0.0005 kg	7.9" x 9.5"	13 lb	$2,783
ViperEXPM12	21203951	24 lb/12 kg	0.002 lb/0.001 kg	7.9" x 9.5"	13 lb	$2,783
ViperEXSM12	21203952	24 lb/12 kg	0.002 lb/0.001 kg	9.5" x 13.8"	21 lb	$2,932
ViperEXSM30	21203953	75 lb/30 kg	0.005 lb/0.002 kg	9.5" x 13.8"	21 lb	$2,932
ViperEXSM60	21203954	120 lb/60 kg	0.01 lb/0.005 kg	9.5" x 13.8"	21 lb	$2,932

VIPER EX MonoBloc

Order Number	SAP Order Number	Cord Grip, M16 (6 pieces); for 6 or 9 Conductor Cable	Resolution (lb/kg)	Platform Size	Shipping Weight (lb)	Suggested List Price (CDN$)
ViperEXMBPM3	21203955	6 lb/3 kg	0.00002 lb/0.00001 kg	6.5" x 6.5"	13 lb	$4,246
ViperEXMBPM6	21203956	12 lb/6 kg	0.0002 lb/0.0001 kg	7.9" x 9.5"	13 lb	$4,246
ViperEXMBSM12	21203957	24 lb/12 kg	0.0002 lb/0.0001 kg		26 lb	$4,686
ViperEXMBSM30	21203958	60 lb/30 kg	0.0002 lb/0.0001 kg	9.5" x 13.8"	26 lb	$5,286

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Viper EX

VIPER EX Power Supplies

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
22021261	22021261	APS768x/120V. Power supply for use in hazardous area. 120 VAC, 50/60 Hz. Includes 15 ft. blue connecting 9 wire cable with cord grip fitting. Per foot Blue cable available (50m MAX) - no splice allowed for Hazardous applications. No interface capability. Stainless Steel Enclosure; 12" x 6.8" x 3.1".	5 lb	$1,408

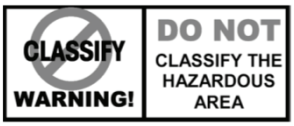
VIPER EX Power Supply & RS-232 Serial Connection

APS768XVIPER	63079629	APS768x-CL/CL-VIPER Ex. Standard APS768x with an additional CL-CL interface card installed. For use with the ACM200 as an RS-232 communication interface for the VIPER-Ex. Ships with a 9-wire Ex-i connection cable, 10 m length		$1,419
72223667	72223667	ACM200 Safe Area Communication Module (Includes 10 m Ex-i, 4 core current loop communication cable and 10m serial cable with 9 pin D-Sub plastic connector)		$506

VIPER EX Accessories

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
504376	504376	RS232 cable, 9 pin female, 10 ft (3 m)	2 lb	$130
504374	504374	RS232 cable, 25 pin female, 10 ft (3 m)	2 lb	$130
503755	503755	RS232 cable, 25 pin male, 10 ft (3 m)	2 lb	$130
22006707	22006707	Blue cable, 9 x 0.5 sq mm, 300 ft roll	35 lb	$822
22006707-FT	63061675	Blue cable, 9 x 0.5 sq mm, per foot price	.1 lb/ft	$7.75
22006708	22006708	Cord grip, M16 x 1.5 (6 pcs)	1 lb	$193
22006709	22006709	Wire terminals, 0.5/13 (100 pcs)	1 lb	$48

Note: Scale protective covers are NOT to be used in hazardous areas!



ISB

Intrinsically Safe Barrier

ISB 15

ISB 15X

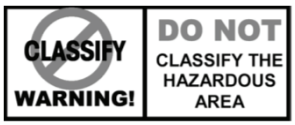
CONSULTATIVE

Approvals

- USA: ISB05 and ISB15 are FM approved for Class I, II, III; Division 1, 2; Groups A through G
- USA: ISB05X and ISB15X are FM approved for Class I, II, III; Division 1, 2; Groups C through G; T6
- Canada: ISB05 and ISB15 are CSA approved for Class I, II, III; Division 1; Groups A through D
- Canada: ISB05X and ISB15X are CSA approved for Class I, II, III; Division 1; Groups C through G
- Europe: ISB05 and ISB15 are KEMA certified as {EEx ia} IIC
- Europe: ISB05X and ISB15X are KEMA certified as EEx d IIB+H2 {ia} IIC T6

Standard Features

- Barriers have both metrology and safety approvals for United States (NTEP/FM), Canada (Canada Metrology/CSA), and Europe (Nmi/KEMA) as instrument peripheral
- Both entity and system approvals have been obtained from Factory Mutual and CSA
- Individually replaceable fuse cartridges
- Removable terminal strip connectors - Color coded and sized differently
- Direct NS35 DIN rail mounting for ISB05 and ISB15 models



Accessories

- Either 3/4" conduit sealing fittings for 20 mm metric thread adapter kits

ISB Model Configuration

Model	Excitation Voltage	Enclosure Type	Market
ISB	05,15	X,(blank)	000

ISB 15 X 000

Ordering Information

ISB Models/Enclosures

Order Number	SAP Order Number	Description	Agency Approvals	Shipping Weight (lb)	Suggested List Price (CDN$)
ISB05000	64031494	Intrinsically Safe Barrier, excitation voltage from 1 to 5 volts; Panel mount barrier, ABS plastic case; safe area location	NMi, NTEP, FM, KEMA, CSA	1 lb	$1,298
ISB05X000	64031496	Intrinsically Safe Barrier, excitation voltage from 1 to 5 volts; Barrier and TYPE 7/9 explosion proof (flameproof) box	NMi, NTEP, FM, KEMA, CSA	8 lb	$1,661
ISB15000	64031495	Intrinsically Safe Barrier, excitation voltage from 5 to 15 volts; Panel mount barrier, ABS plastic case; safe area location	NMi, NTEP, FM, KEMA, CSA	1 lb	$1,298
ISB15X000	64031497	Intrinsically Safe Barrier, excitation voltage from 5 to 15 volts; Barrier and TYPE 7/9 explosion proof (flameproof) box	NMi, NTEP, FM, KEMA, CSA	8 lb	$1,661

Terminal Reference

ISB05	Panther, IND131 / IND331, IND221 / IND226, ICS4xx / ICS6xx
ISB15	Lynx, Jaguar/JagXtreme, IND4xx, IND246, IND560, IND690, IND780

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ISB Intrinsically Safe Barrier

ISB Accessories

Order Number	SAP Order Number	Description	Agency Approvals	Shipping Weight (lb)	Suggested List Price (CDN$)
09170308000	64035520	Kit with two 3/4" conduit sealing fittings	UL	1 lb	$97
09170309000	64035521	Kit with two 3/4" to 20mm thread adapters	BASEEFA	1 lb	$63
09170339000	64048856	Ground kit for ISB05/ISB15, required in Canada	CSA	1 lb	$71

Conduit Sealing Fittings

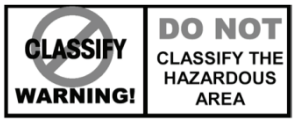
Metric Thread Adapters

Notes:

1. In all circumstances, it is the user's responsibility to establish the correct classification of the hazardous area. METTLER authorized sales and service representatives **are not permitted** to participate in the classification of the customer's hazardous area.
2. The model ISB **is not** compatible with the following METTLER TOLEDO terminals: 8130, 8132, 8136, 8140 and 8142 early
3. The model ISB **is** compatible with the following METTLER TOLEDO terminals: Late 8140 and 8142, 8510PA, HAWK®, SPIDER®, PANTHER®, LYNX®, JAGUAR®, JAGXTREME®, ID7, and IND terminals.
4. The Intrinsically Safe Barrier is a safety device, expendable, and **is not warranted beyond installation.**
5. METTLER TOLEDO terminals, modified for low excitation voltage of 5 volts and 15 volts, by themselves are not suitable for intrinsic safe operation. They must be used in conjunction with an approved barrier such as the ISB.
6. When using the ISB, the scale build will be reduced depending upon the quantity and bridge resistance of the load cell(s) being used. Refer to the technical manual of the ISB for specifics.
7. The user's insurance carrier may require that the user obtain specific approval for the use of this equipment.
This approval transaction is between the user and the user's insurance carrier.
The user assumes total responsibility and liability for submission and approval by the insurance carrier for use in a specific area.

Agency Designation:
FM - Factory Mutual Research Corporation
NTEP - National Type Evaluation Program
UL - Underwriters' Laboratories, Incorporated
CSA - Canadian Standards Association
CE - Conformité Européne
NMi - Nederlands Meetinstituut
KEMA - KEMA N.V.
BASEEFA - British Approvals Service for Electrical Equipment in Flammable Atmospheres

Reference:
USA - FM Control Drawings 159672R
USA - FM Certificate, 3010967
Canadian - CSA Control Drawing 156305R (4 pages) and 165089R
Canadian - CSA Certificate, 1197104
European - KEMA Certificate, EX-01.E.1055



Notes

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