

Rosemount 752 FOUNDATION™ Fieldbus Remote Indicator



- Two-wire segment powered device
- Displays up to eight values
- Link Master Capability
- Optional PID, Characterizer, Arithmetic, and Integrator Function Blocks
- ITK6 Certified

Display Data Wherever Needed with the Rosemount 752 Remote Fieldbus Indicator

The Rosemount 752 FOUNDATION Fieldbus Remote Indicator is useful for displaying the value of a controlled variable next to a final control device or for displaying information from transmitters mounted in inaccessible locations. The Indicator can be located anywhere along the segment to allow information to be displayed wherever it is needed.

The 752 Remote Indicator can display a function block output from any device on the FOUNDATION Fieldbus H1 segment. Up to eight values can be configured with Tag and engineering units. The data is scrolled sequentially in three-second increments. In addition to displaying values from fieldbus devices, the Rosemount 752 Remote Indicator can provide advanced calculations and control capability through the optional function block suite. Function blocks provided include Input Selector, Input Characterizer, Arithmetic, Integrator, and PID with autotune.

The Rosemount 752 is a core component of the Plantweb™ digital plant architecture. Visit Emerson.com/Plantweb to learn how to get the most out of any Fieldbus project.

Figure 1. The Rosemount 752 can Display up to Eight Variables Coming from any Device on the Fieldbus Segment

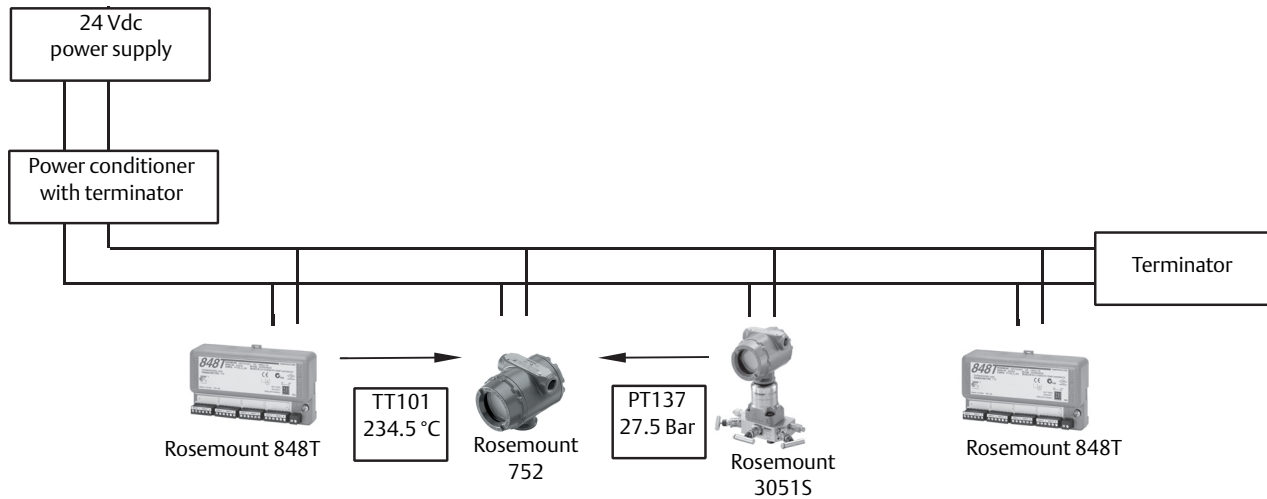
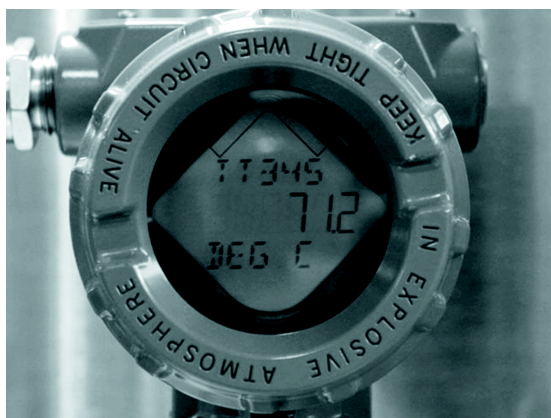


Figure 2. Rosemount 752 Display



Contents

Ordering Information	4	Product Certifications	7
Specifications	6	Dimensional Drawings	10

Ordering Information

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See [page 6](#) for more information on material selection.

Table 1. Rosemount 752 Fieldbus Remote Indicator Ordering Information

The starred offerings (★) represent the most common options and should be selected for best delivery. The non-starred offerings are subject to additional delivery lead time.

Model	Product type			
752	Fieldbus Remote Indicator			
Transmitter output				
F	FOUNDATION Fieldbus digital signal			★
Housing style		Material	Conduit entry size	
1A	Plantweb Housing	Aluminum	1/2–14 NPT	★
1B	Plantweb Housing	Aluminum	M20 × 1.5 (CM20)	★
1C	Plantweb Housing	Aluminum	JIS G ¹ / ₂	★
1J	Plantweb Housing	SST	1/2–14 NPT	★
1K	Plantweb Housing	SST	M20 × 1.5 (CM20)	★
1L	Plantweb Housing	SST	JIS G ¹ / ₂	★

Options (include with selected model number)

Plantweb control functionality			
A01	FOUNDATION Fieldbus Advanced Control Function Block Suite		★
Product certifications			
E5	FM Explosion-Proof, Dust-Ignition-proof		★
I5	FM Intrinsically Safe, Division 2		★
IE ⁽¹⁾	FM FISCO Intrinsically Safe		★
K5	FM Explosion-proof; Intrinsically Safe; Division 2; Dust Ignition-proof Combination		★
E6	CSA Explosion-proof; Division 2; Dust Ignition-proof		★
I6	CSA Intrinsically Safe		★
IF ⁽¹⁾	CSA FISCO Intrinsically Safe		★
K6	CSA Explosion-proof; Intrinsically Safe; Division 2; Dust Ignition-proof Combination		★
E1	ATEX Flameproof		★
I1	ATEX Intrinsic Safety		★
IA ⁽¹⁾	ATEX FISCO Intrinsic Safety		★
N1	ATEX Type n		★
ND	ATEX Dust		★
K1	ATEX Flameproof; Intrinsic Safety; Type n; Dust Combination		★
I7	IECEx Intrinsic Safety		★

Table 1. Rosemount 752 Fieldbus Remote Indicator Ordering Information

The starred offerings (★) represent the most common options and should be selected for best delivery. The non-starred offerings are subject to additional delivery lead time.

IG ⁽¹⁾	IECEX FISCO Intrinsically Safe	★
N7	IECEX Type n	★
E7	IECEX Flameproof	★
I2	INMETRO Intrinsic Safety	★
E2	INMETRO Flameproof	★
KA	CSA and ATEX: Flameproof; Intrinsically Safe; Division 2 Combination	★
K2	INMETRO Flame-proof; Intrinsic Safety Combination	★
IB	INMETRO FISCO Intrinsically Safe	★
KB	FM and CSA: Explosion-proof; Intrinsically Safe; Division 2; Dust Ignition-proof Combination	★
KC	FM and ATEX: Explosion-proof; Intrinsically Safe; Division 2 Combination	★
KM	Technical Regulations Customs Union (EAC) Flameproof, Intrinsic Safety	★
IM	Technical Regulations Customs Union (EAC) Intrinsic Safety	★
EM	Technical Regulations Customs Union (EAC) Flameproof	★
NM	Technical Regulations Customs Union (EAC) Type N	★
Transient protection		
T1 ⁽¹⁾	Integral Transient Protector	★
Conduit electrical connector		
GE ⁽²⁾	M12, 4-pin, Male Connector (eurofast®)	★
GM ⁽²⁾	A size Mini, 4-pin, Male Connector (minifast®)	★
Extended Product warranty		
WR3	3-year limited warranty	★
WR5	5-year limited warranty	★
Typical model number: 752 F 1A A01 E1		

1. The T1 option is not needed with FISCO Product Certifications, transient protection is included in the FISCO product certification codes IA, IE, IF, and IG.

2. Not available with certain hazardous location certifications. Contact your local Emerson representative for details.

Specifications

Functional specifications

Current consumption

17.5 mA

Power requirements

External power required;
operates a 9.0–32.0 Vdc on a Fieldbus terminated segment

Temperature limits

–4 to 175 °F (–20 to 80 °C)

Ambient storage

–40 to 185 °F (–40 to 85 °C)

Humidity limits

0–100 percent relative humidity

Electrical connections

1/2- 14 NPT, G 1/2, and M20 × 1.5 (CM20) conduit

Performance specifications

Configurable to display up to eight function block output values. Display sequences through configured variables at three-second intervals.

Conformance to specifications [$\pm 3\sigma$ (Sigma)]

Technology leadership, advanced manufacturing techniques, and statistical process control ensure specification conformance to at least $\pm 3\sigma$.

Software upgrade in the field

Software for the Rosemount 752 with FOUNDATION Fieldbus is easy to upgrade in the field using the FOUNDATION Fieldbus Common Device Software Download procedure.

Block execution times

PID: 10 ms

Arithmetic: 10 ms

Input selection: 10 ms

Signal characterizer: 10 ms

Integrator: 10 ms

Advanced Control Function Block Suite (Option code A01)

Input selector block

Selects between inputs and generates an output using specific selection strategies such as minimum, maximum, midpoint, average, or first “good.”

Arithmetic block

Provides pre-defined application-based equations including flow with partial density compensation, electronic remote sensors, hydrostatic tank gauging, ratio control, and others.

Signal characterizer block

Characterizes or approximates any function that defines an input/output relationship by configuring up to twenty X, Y coordinates. The block interpolates an output value for a given input value using the curve defined by the configured coordinates.

Integrator block

Compares the integrated or accumulated value from one or two variables to pre-trip and trip limits and generates discrete output signals when the limits are reached. This block is useful for calculating total flow, total mass, or volume over time.

Physical specifications

Material selection

Emerson provides a variety of Rosemount products with various product options and configurations including materials of construction that can be expected to perform well in a wide range of applications. The Rosemount product information presented is intended as a guide for the purchaser to make an appropriate selection for the application. It is the purchaser's sole responsibility to make a careful analysis of all process parameters (such as all chemical components, temperature, pressure, flow rate, abrasives, contaminants, etc.), when specifying product materials, options, and components for the particular application. Emerson is not in a position to evaluate or guarantee the compatibility of the process fluid or other process parameters with the product options, configuration, or materials of construction selected.

Weight

2.5 lb (1.1 kg)

Product Certifications

Rev 1.12

European Directive Information

A copy of the EU Declaration of Conformity can be found at the end of the Quick Start Guide. The most recent revision of the EU Declaration of Conformity can be found at Emerson.com/Rosemount.

Ordinary Location Certification

As standard, the transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by a nationally recognized test laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

North America

The US National Electrical Code® (NEC) and the Canadian Electrical Code (CEC) permit the use of Division marked equipment in Zones and Zone marked equipment in Divisions. The markings must be suitable for the area classification, gas, and temperature class. This information is clearly defined in the respective codes.

USA

- E5** FM Explosion-proof and Dust-Ignition proof
 Certificate: FM16US0090
 Standards: FM 3600:2011, FM 3615:2006, FM 3616:2011, FM 3810:2005, ANSI/NEMA®-250:2003
 Markings: XP CL I, DIV 1, GP B, C, D T5; DIP CL II DIV 1 GP E, F, G; CL III; ($-20\text{ °C} \leq T_a \leq 80\text{ °C}$); SEAL NOT REQUIRED; TYPE 4X
- I5/IE** FM Intrinsically Safe, Division 2/FISCO Intrinsically Safe
 Certificate: 3017198
 Standards: FM 3600:2011, FM 3610:2010, FM 3611:2004, FM 3810:2005, ANSI/NEMA 250:1991, ANSI/ISA-60079-0:2009, ANSI/ISA-60079-11:2009
 Markings: IS CL I, II, III, DIV 1, GP A, B, C, D, E, F, G T4; IS CL I, ZONE 0, AEx ia IIC T4; ($-20\text{ °C} \leq T_a \leq 60\text{ °C}$); NI CL I, DIV 2, GP A, B, C, D T4; ($-20\text{ °C} \leq T_a \leq 60\text{ °C}$); INSTALL PER 00752-1010; TYPE 4X
 FISCO FIELD DEVICE; IS CL I, II, III, DIV 1, GP A, B, C, D, E, F, G T4; IS CL I, ZONE 0, AEx ia IIC T4; ($-20\text{ °C} \leq T_a \leq 60\text{ °C}$); INSTALL PER 00752-1010; TYPE 4X

Canada

- E6** CSA Explosion-proof and Dust-Ignition proof, Division 2
 Certificate: 1563767
 Standards: CSA C22.2 No. 25-1966, CSA C22.2 No. 30-M1986, CAN/CSA C22.2 No. 94-M91, CSA C22.2 No. 142-M1987, CAN/CSA C22.2 No. 157-92, CSA C22.2 No. 213-M1987
 Markings: CL I, DIV 1, GP B, C, D; CL II, DIV 1, GP E,F,G; CL III; ($-50\text{ °C} \leq T_a \leq 80\text{ °C}$); CL I, DIV 2 GP A, B, C, D T3C; ($-20\text{ °C} \leq T_a \leq 40\text{ °C}$); Seal not required; TYPE 4X
- I6/IF** CSA Intrinsically Safe / FISCO Intrinsically Safe
 Certificate: 1563767
 Standards: CSA C22.2 No. 25-1966, CSA C22.2 No. 30-M1986, CAN/CSA C22.2 No. 94-M91, CSA C22.2 No. 142-M1987, CAN/CSA C22.2 No. 157-92, CSA C22.2 No. 213-M1987
 Markings: CL I, DIV 1, GP A, B, C, D T3C ($-20\text{ °C} \leq T_a \leq 40\text{ °C}$); INSTALL PER 00752-1020; TYPE 4X
 FISCO FIELD DEVICE; CL I, DIV 1, GP A, B, C, D T3C ($-20\text{ °C} \leq T_a \leq 40\text{ °C}$); INSTALL PER 00752-1020; TYPE 4X

Europe

- E1** ATEX Flameproof
 Certificate: KEMA03ATEX2476X
 Standards: EN 60079-0:2012+A11:2013, EN 60079-1:2014
 Markings: Ⓜ II 2 G; Ex db IIC T6...T5 Gb, T5 ($-60\text{ °C} \leq T_a \leq 80\text{ °C}$), T6 ($-60\text{ °C} \leq T_a \leq 70\text{ °C}$); IP66

Special Conditions for Safe Use (X):

1. Flameproof joints are not intended for repair.
2. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

- I1/IA** ATEX Intrinsic Safety/FISCO Intrinsic Safety
 Certificate: Baseefa03ATEX0239X
 Standards: EN 60079-0:2012+A11:2013, EN 60079-11:2012
 Markings: Ⓜ II 1 G, Ex ia IIC T4 Ga; ($-20\text{ °C} \leq T_a \leq +60\text{ °C}$); IP66
 See [Table 2](#) for Entity Parameters.

Special Conditions for Safe Use (X):

1. When fitted with the transient protection option, the apparatus is not capable of withstanding the 500 V test as defined in Clause 6.3.13 of EN 60079-11:2012. This must be taken into account during installation.
2. The Rosemount 752 enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in a zone 0 area.

N1 ATEX Type n

Certificate: Baseefa03ATEX0240X

Standards: EN 60079-0:2012+A11:2013, EN 60079-15:2010


Markings:  II 3 G; Ex nA IIC T5 Gc ($-20^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$); IP66**Special Condition for Safe Use (X):**

1. The equipment is not capable of withstanding the 500 V insulation test required by Clause 6.5 of EN 60079-15:2010. This must be taken into account when installing the apparatus.

ND ATEX Dust

Certificate: KEMA03ATEX2476X

Standards: EN 60079-0:2012+A11:2013, EN 60079-31:2014

Markings:  II 2 D; Ex tb IIIC T105 °C Db ($-60^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$); IP66**Special Conditions for Safe Use (X):**

1. Flameproof joints are not intended for repair.
2. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

International**E7** IECEx Flameproof

Certificate: IECEx KEM 10.0066X

Standards: IEC 60079-0:2011, IEC 60079-1:2014-06

Markings: Ex db IIC T6...T5 Gb, T5 ($-60^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$), T6 ($-60^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$); IP66**Special Condition for Safe Use (X):**

1. Flameproof joints are not intended for repair.
2. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

I7/IG IECEx Intrinsic Safety / FISCO Intrinsic Safety

Certificate: IECEx BAS 04.0029X

Standards: IEC 60079-0:2011, IEC 60079-11:2011

Markings: Ex ia IIC T4 Ga; T4 ($-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$) IP66
See [Table 2](#) for entity parameters.**Special Conditions for Safe Use (X):**

1. When fitted with the transient option, the apparatus is not capable of withstanding the 500 V test as defined in Clause 6.3.13 of IEC 60079-11:2011. This must be taken into account during installation.
2. The Rosemount 752 enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact of abrasion if located in a zone 0 area.

N7 IECEx Type n

Certificate: IECEx BAS 04.0030X

Standards: IEC 60079-0:2011, IEC 60079-15:2010

Markings: Ex nA IIC T5 Gc ($-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$); IP66**Special Condition for Safe Use (X):**

1. When fitted with the transient option, the apparatus is not capable of withstanding the 500 V test as defined in Clause 6.5 of IEC 60079-15:2010. This must be taken into account during installation.

NF IECEx Dust

Certificate: IECEx KEM 10.0066X

Standards: IEC 60079-0:2011, EN 60079-31:2013

Markings: Ex tb IIIC T105 °C Db ($-60^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$); IP66**Special Conditions for Safe Use (X):**

1. Flameproof joints are not intended for repair.
2. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

Brazil**E2** INMETRO Flameproof

Certificate: UL-BR 15.1054X

Standards: ABNT NBR IEC 60079-0:2008 + corrigendum 1:2011, ABNT NBR IEC 60079-1:2009 + corrigendum 1:2011, ABNT NBR IEC 60079-31:2011

Markings: Ex d IIC T6 Gb ($-60^{\circ}\text{C} \leq T_{amb} \leq +70^{\circ}\text{C}$); Ex d IIC T5 Gb ($-60^{\circ}\text{C} \leq T_{amb} \leq +80^{\circ}\text{C}$)

I2/IB INMETRO Intrinsic Safety/FISCO Intrinsic Safety

Certificate: UL-BR 16.0078X

Standards: ABNT NBR IEC 60079-0:2008 + Errata 1:2011,
ABNT NBR IEC 60079-11:2009, ABNT NBR IEC
60079-26:2008 + Errata 1:2008Markings: Ex ia IIC T4 ($-20\text{ °C} \leq T_a \leq +60\text{ °C}$) Ga; IP66**EAC****EM** Technical Regulation Customs Union (EAC) Flameproof

Certificate: RU C-US.Gb05.B.00285

Markings: 1Ex d IIC T5...T6 X; IP65

IM Technical Regulation Customs Union (EAC) Intrinsic Safety

Certificate: RU C-US.Gb05.B.00285

Markings: 0Ex ia IIC T4 X; IP65

NM Technical Regulation Customs Union (EAC) Type n

Certificate: RU C-US.Gb05.B.00285

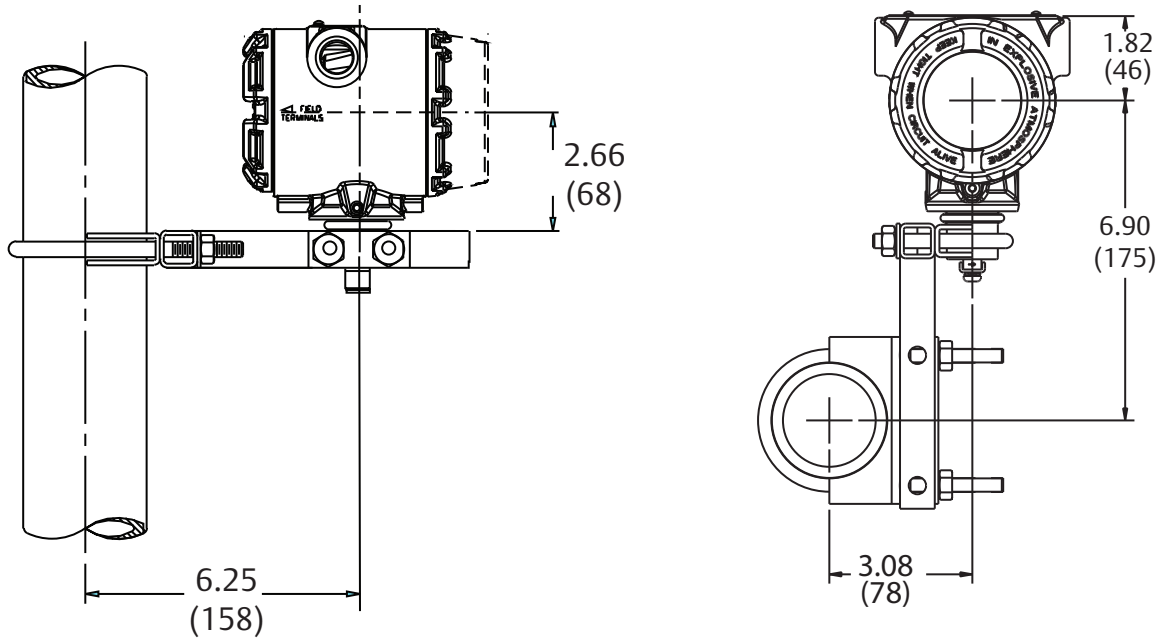
Markings: Ex nA IIC T5 X; IP65

Combinations**K1** Combination of E1, I1, N1, and ND**K2** Combination of E2 and I2**K5** Combination of E5 and I5**K6** Combination of E6 and I6**KA** Combination of E1, E6, I1, and I6**KB** Combination of E5, E6, I5, and I6**KC** Combination of E5, E1, I5, and I1**KM** Combination of EM, IM, and NM**Table 2. Entity Parameters**

Parameters	Fieldbus	FISCO
U_i (V)	30	17.5
I_i (mA)	300	380
P_i (W)	1.3	5.32
C_i (F)	0	0
L_i (H)	0	0

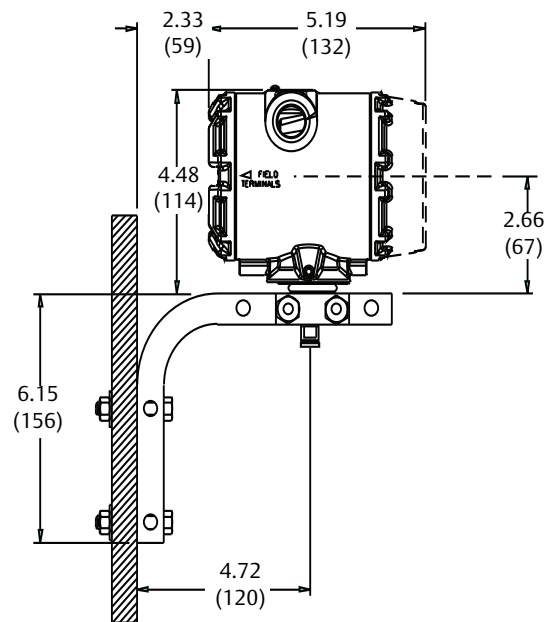
Dimensional Drawings

Figure 3. Pipe Mount Installations



Dimensions are in inches (millimeters).

Figure 4. Panel Mount Installations



Dimensions are in inches (millimeters).

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