

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

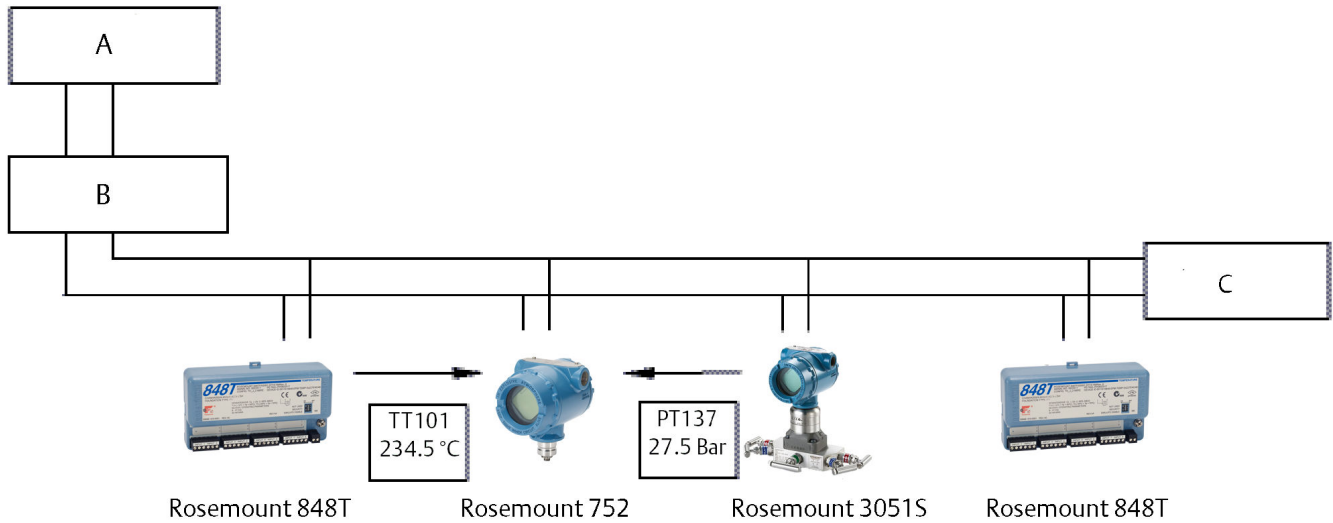
Display data wherever needed with the Rosemount 752 Remote Fieldbus Indicator

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 Rosemount 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](https://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



- A. 24 Vdc power supply
- B. Power conditioner with terminator
- C. Terminator

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Specifications and options

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. For more information, see [Material selection](#).

Optimizing lead time

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

Required model components

Model

Code	Description	
752	Fieldbus Remote Indicator	★

Transmitter output

Code	Description	
F	FOUNDATION™ Fieldbus digital signal	★

Housing style

Code	Description	Material	Conduit entry size	
1A	Plantweb housing	Aluminum	½-14 NPT	★
1B	Plantweb housing	Aluminum	M20 × 1.5 (CM20)	★
1C	Plantweb housing	Aluminum	JIS ½G	★
1J	Plantweb housing	SST	½-14 NPT	★
1K	Plantweb housing	SST	M20 × 1.5 (CM20)	★
1L	Plantweb housing	SST	JIS ½G	★

Additional options

Plantweb control functionality

Code	Description	
A01	FOUNDATION™ Fieldbus advanced control function block suite	★

Product certifications

Code	Description	
E5	USA Explosion-Proof, Dust Ignition-proof	★
I5	USA Intrinsically Safe, Division 2	★
IE ⁽¹⁾	USA FISCO Intrinsically Safe	★
K5	USA Explosion-proof; Intrinsically Safe; Division 2; Dust Ignition-proof Combination	★
E6	Canada Explosion-proof; Division 2; Dust Ignition-proof	★
I6	Canada Intrinsically Safe	★
IF ⁽¹⁾	Canada FISCO Intrinsically Safe	★
K6	Canada 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	★
IG ⁽¹⁾	IECEX FISCO Intrinsically Safe	★
N7	IECEX Type N	★
E7	IECEX Flameproof	★
I2	Brazil Intrinsic Safety	★
E2	Brazil Flameproof	★
KA	Canada and ATEX: Flameproof; Intrinsically Safe; Division 2 Combination	★
K2	Brazil Flameproof; Intrinsic Safety Combination	★
IB	Brazil FISCO Intrinsically Safe	★
KB	USA and Canada: Explosion-proof; Intrinsically Safe; Division 2; Dust Ignition-proof Combination	★
KC	USA 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	★

(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.

Transient protection

Code	Description	
T1	Integral transient protector	★

Conduit electrical connector

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

Code	Description	
GE	M12, 4-pin, male connector (Eurofast®)	★
GM	A size mini, 4-pin, male connector (Minifast®)	★

Extended product warranty

Code	Description	
WR3	Three-year limited warranty	★
WR5	Five-year limited warranty	★

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% relative humidity

Electrical connections

–14 NPT, G, 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" reading.

Arithmetic block

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

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 options and configurations including materials of construction that can be expected to perform well in a wide range of applications. The 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

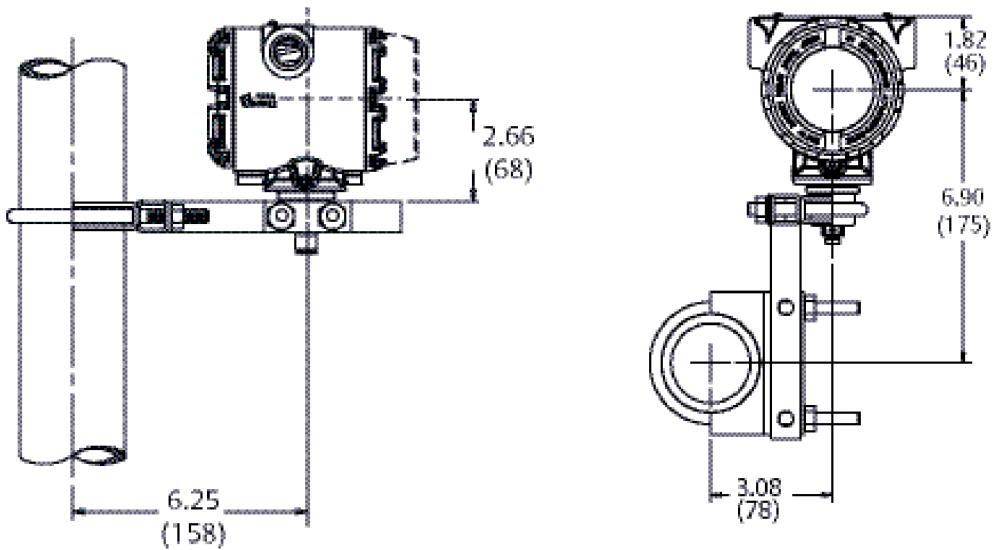
2.5 lb (1.1 kg)

Product Certifications

For Rosemount 752 product certifications, see the [Rosemount 752 Foundation Fieldbus Remote Indicator Quick Start Guide](#).

Dimensional Drawings

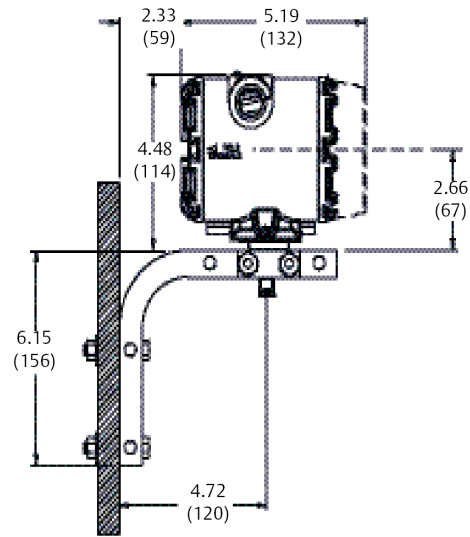
Figure 4: Pipe Mount Installations



Note

Dimensions are in inches (millimeters).

Figure 5: Panel Mount Installations



Note

Dimensions are in inches (millimeters).

For more information: [Emerson.com/global](https://emerson.com/global)

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