

Rosemount 752 Fieldbus Remote Indicator

ROSEMOUNT 752 DELIVERS:

- *Two-wire segment powered device*
- *Displays up to 8 values*
- *Link Master Capability*
- *Optional PID, Characterizer, Arithmetic, and Integrator Function Blocks*



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Display Data Wherever Needed with the Rosemount 752 Remote Fieldbus Indicator

The Rosemount 752 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 Fieldbus Remote Indicator can display a function block output from any device on the Foundation™ fieldbus H1 segment. Up to 8 values can be configured with Tag and engineering units. The data is scrolled sequentially in 3-second increments. In addition to displaying values from fieldbus devices, the 752 field 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 www.plantweb.com to get the most out of your fieldbus project.

FIGURE 1. The Rosemount 752 can display up to 8 variables coming from any device on the Fieldbus Segment

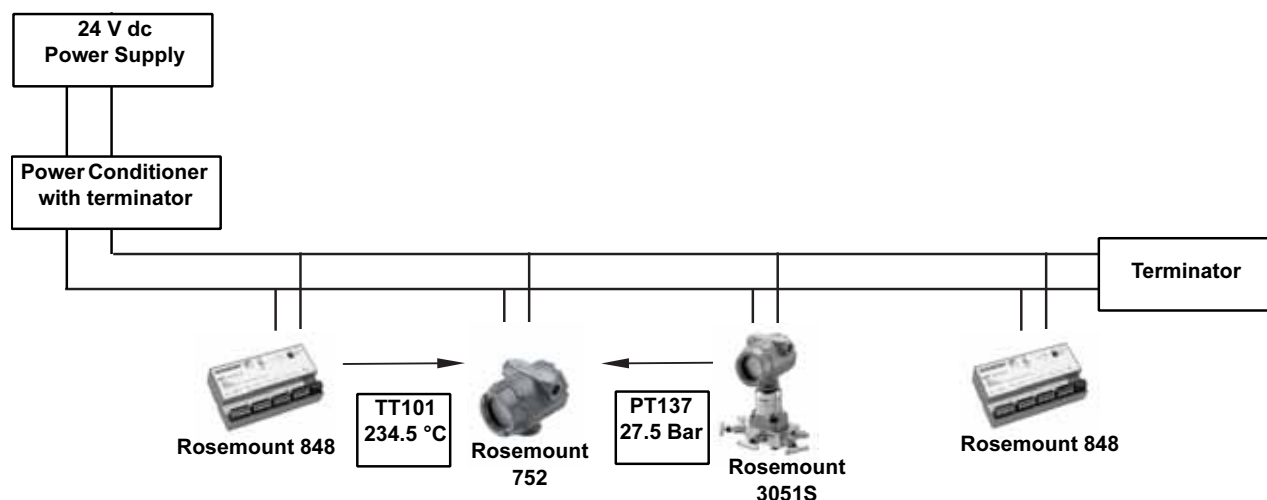
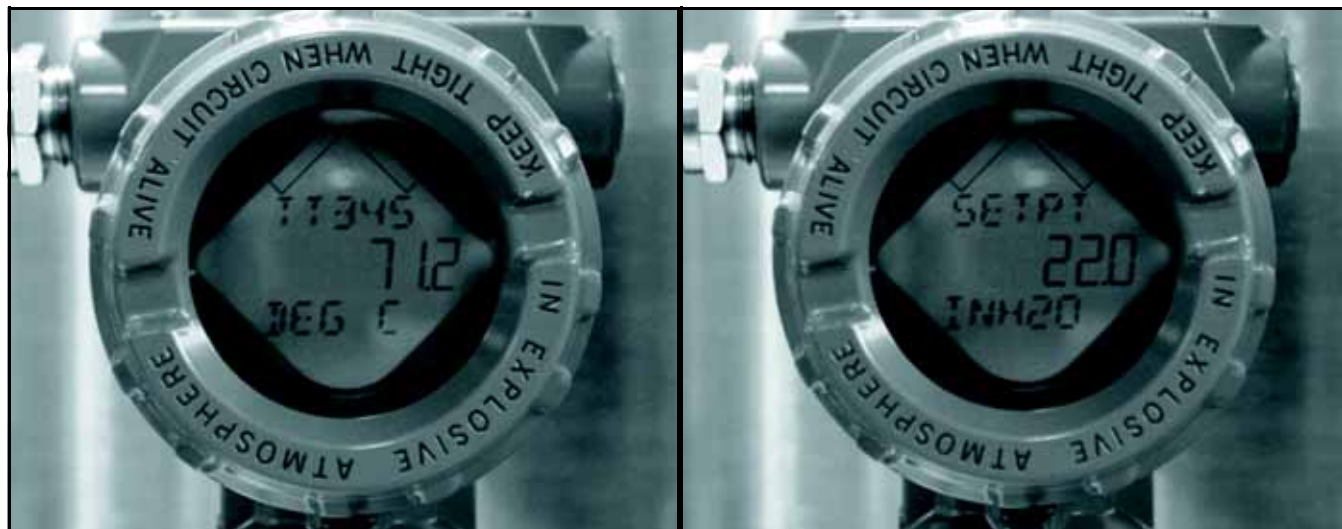


FIGURE 2. Rosemount 752 Display



Specifications

Functional Specifications

Current Consumption

17.5mA

Power Requirements

External power required;
operates on 9.0 to 32.0 V dc terminal voltage

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

$\frac{1}{2}$ - 14 NPT, G $\frac{1}{2}$, and M20 x 1.5 (CM20) conduit

Performance Specifications

Configurable to display up to eight function block output values.

Display sequences through configured variables at 3 second intervals.

Block Execution Times

PID: 25 ms

Arithmetic: 20 ms

Input Selection: 20 ms

Signal Characterizer: 20 ms

Integrator: 20 ms

Physical Specifications

Weight

2.5 lb (1.1 kg)

Product Certifications

APPROVED MANUFACTURING LOCATIONS

Rosemount Inc. — Chanhassen, Minnesota, USA

European Directive Information

The EC declaration of conformity for all applicable European directives for this product can be found on the Rosemount website at www.rosemount.com. A hard copy may be obtained by contacting our local sales office.

Electro Magnetic Compatibility (EMC)

EN 61326

ATEX Directive (94/9/EC)

Emerson Process Management complies with the ATEX Directive.

HAZARDOUS LOCATIONS CERTIFICATIONS

North American Certifications

Factory Mutual (FM)

E5 Explosion-Proof for Class I, Division 1, Groups B, C, and D; dust-ignition proof for Class II and Class III, Division 1, Groups E, F, and G; hazardous locations; enclosure Type 4X, conduit seal not required.

I5/IE Intrinsically Safe for use in Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class III, Division 1; Class I, Zone 0, AEx ia IIC T4; when connected in accordance with Rosemount drawing 00752-1010; Temperature Code T4 ($T_a = 60^\circ\text{C}$); Non-incendive for Class I, Division 2, Groups A, B, C, and D. Enclosure Type 4X
For entity parameters see control drawing 00752-1010.

Canadian Standards Association (CSA)

E6 Explosion-Proof for Class I, Division 1, Groups B, C, D; Dust-ignition proof for Class II, Groups E, F, G; Dust-ignition proof for Class III
Temperature Code T5, ($T_a = 80^\circ\text{C}$)
Suitable for Class I, Division 2, Groups A, B, C, D; Temperature Code T3C ($T_a = 40^\circ\text{C}$).


I6/IF Intrinsically Safe for Class I, Division 1, Groups A, B, C, D when installed in accordance with Rosemount drawing 00752-1020.
Temperature Code T3C ($T_a = 40^\circ\text{C}$).
Enclosure Type 4X

European Certifications

I1/IA ATEX Intrinsic Safety

Certificate No.: Baseefa03ATEX0239X  II 1G

EEx ia IIC T4 ($-20^\circ\text{C} \leq T_a \leq 60^\circ\text{C}$)

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Input Parameters:


Fieldbus	FISCO Group IIC	FISCO Group IIB
$U_i = 30\text{ V dc}$	$U_i = 17.5\text{ V dc}$	$U_i = 17.5\text{ V dc}$
$I_i = 300\text{ mA}$	$I_i = 215\text{ mA}$	$I_i = 500\text{ mA}$
$P_i = 1.3\text{ W}$	$P_i = 2\text{ W}$	$P_i = 5.32\text{ W}$
$C_i = 0$	$C_i = 0$	$C_i = 0$
$L_i = 0$	$L_i = 0$	$L_i = 0$

SPECIAL CONDITIONS FOR SAFE USE (X)

When fitted with the transient option, the apparatus is not capable of withstanding the 500V test as defined in Clause 6.4.12 of EN 50020:2002. This must be taken into account during installation.

The enclosure may be aluminium, protected against low-levels of impact by a coating of epoxy polyester or polyurethane paint. The risk of high-levels of impact must be considered in any installation and protected accordingly.


E1 ATEX Flame-proof

Certificate No.: KEMA 03 ATEX2476  II 2 G

EEx d IIC T6 ($-50^\circ\text{C} \leq T_a \leq 65^\circ\text{C}$)

EEx d IIC T5 ($-20^\circ\text{C} \leq T_a \leq 80^\circ\text{C}$)

$V_{\max} = 42.4\text{ V}$

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N1 ATEX Non-incendive

Certificate No.: Baseefa03ATEX0240X  II 3 G

EEx nA II T5 ($T_a = -20^\circ\text{C} \leq T_a \leq 70^\circ\text{C}$)

Input Parameters:

$U_i = 45\text{ V dc}$


$C_i = 0$

$L_i = 0$

SPECIAL CONDITIONS FOR SAFE USE (X)

The apparatus is not capable of withstanding the 500V insulation test required by Clause 9.1 of EN 50021: 1999. This must be taken into account when installing the apparatus.

ND ATEX Dust

Certificate No.: KEMA 03 ATEX2476  I D T105°C

$-20^\circ\text{C} \leq T_a \leq 85^\circ\text{C}$

$V = 42.4\text{ V Max}$

$A = 27\text{ mA}$

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Other Hazardous Location Approvals Pending.

Dimensional Drawings

FIGURE 3. Remote Pipe Mount Meter Mounting Configurations

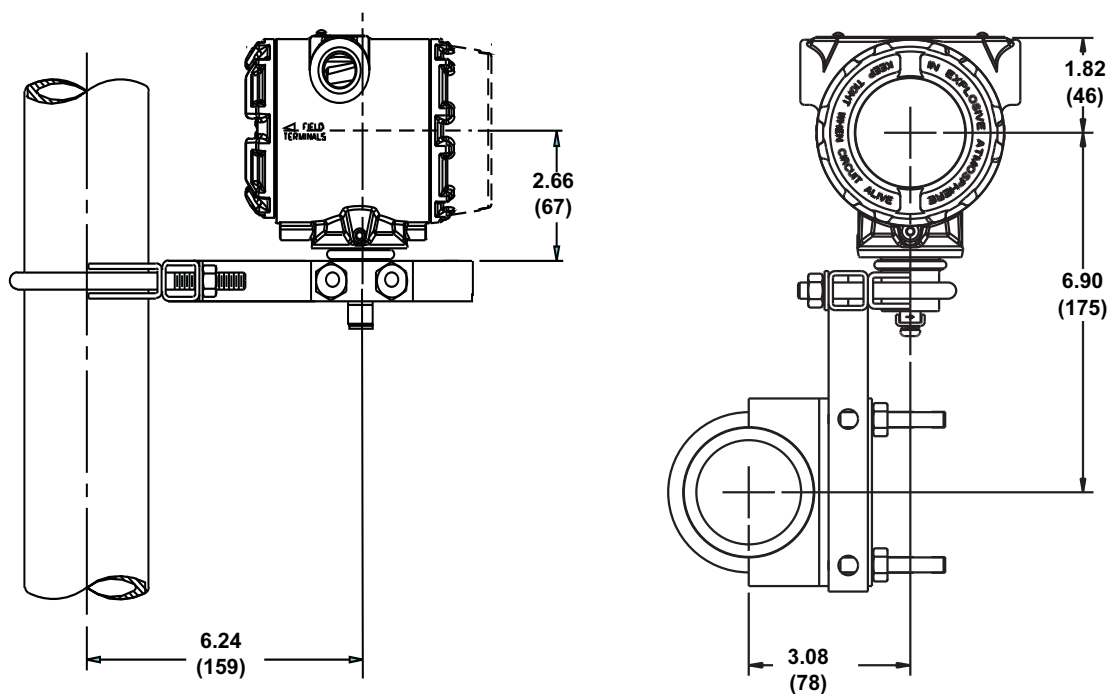
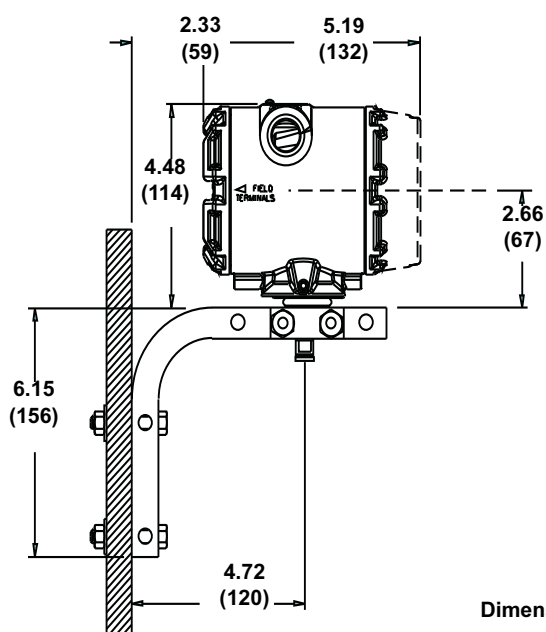


FIGURE 4. Remote Panel Mount Meter Mounting Configurations



Dimensions are in inches (millimeters)

Ordering Information

Model	Product Type		
752	Fieldbus Remote Indicator		
Code	Transmitter Output		
F	FOUNDATION Fieldbus		
Code	Housing Style	Material	Conduit Entry Size
1A	PlantWeb Housing	Aluminum	¹ / ₂ - 14 NPT
1B	PlantWeb Housing	Aluminum	M20 x 1.5 (CM20)
1C	PlantWeb Housing	Aluminum	G ¹ / ₂
1J	PlantWeb SST Housing ¹ / ₂ -inch NPT	SST	¹ / ₂ -14 NPT
1K	PlantWeb SST Housing CM20	SST	M20 x 1.5 (CM20)
1L	PlantWeb SST housing G ¹ / ₂	SST	G ¹ / ₂
Code	Options		
	PlantWeb Control Anywhere Software		
A01	Regulatory Control Suite: PID, arith, signal char, integ, etc.		
	Product Certifications		
E1	CENELEC Flameproof		
I1	CENELEC Intrinsic Safety		
IA	CENELEC FISCO Intrinsic Safety		
N1	CENELEC Type n		
K1	CENELEC Flameproof, Intrinsic Safety, Type n (combination of E1, I1, and N1)		
ND	CENELEC Combustible Dust		
E5	FM Explosion-Proof		
I5	FM Intrinsic Safe and Non-Incendive		
IE	FM FISCO Intrinsic Safety		
K5	FM Explosion-Proof, Intrinsically Safe, and Non-Incendive		
E6	CSA Explosion-Proof		
I6	CSA Intrinsic Safety and Division 2		
IF	CSA FISCO Intrinsic Safety		
K6	Combination of E6 and I6 (CSA Explosion-Proof, Intrinsic Safety, and Non-Incendive)		
KA	Combination of CENELEC and CSA Flame-Proof, Intrinsic Safety, Non-Incendive		
KB	Combination of FM and CSA Explosion-Proof, Intrinsic Safety, Division 2		
KC	Combination of FM and CENELEC Explosion-Proof and Intrinsic Safety		
	Transient Terminal Block		
T1	Transient Terminal Block		
	Quick Conduit Connector		
GE ⁽¹⁾	M12, 4-pin, Male Connector (<i>eurofast</i> [®])		
GM ⁽¹⁾	A size Mini, 4-pin, Male Connector (<i>minifast</i> [®])		
Typical Model Number: 752 F 1A A01 E1			

(1) Not available with certain hazardous location certifications. Contact your local Emerson Process Management representative for details.

Rosemount 752

Product Data Sheet

00813-0100-4377, Rev BB

Catalog 2008 - 2009

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