

# 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

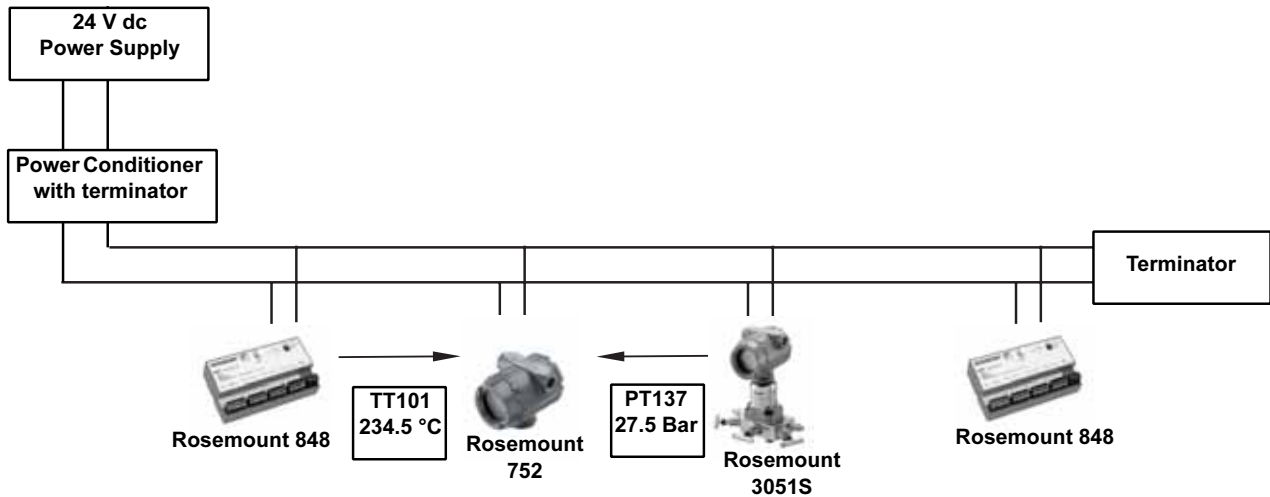
The Rosemount 752 Fieldbus Remote Indicator is useful for displaying the value of a controlled variable next to a final control device or for displaying information from transmitters mounted in inaccessible locations. The Indicator can be located anywhere along the segment to allow information to be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



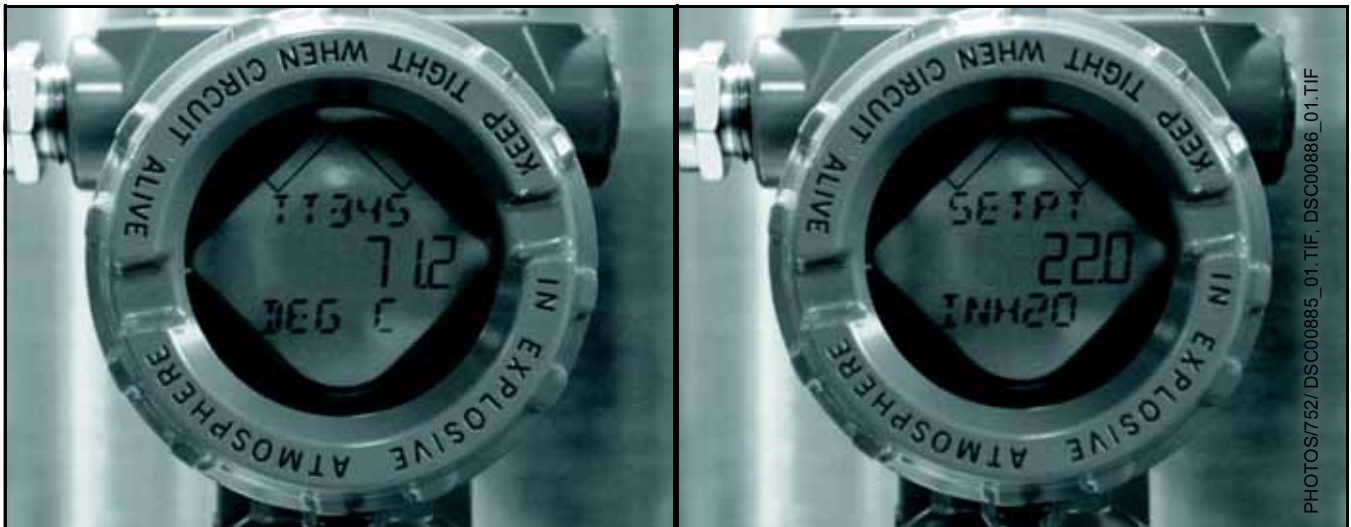
The Rosemount 752 is a core component of the PlantWeb digital plant architecture. Visit [www.plantweb.com](http://www.plantweb.com) to get the most out of your fieldbus project.

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



752752\_01A.EPS

FIGURE 2. Rosemount 752 Display



PHOTOS752/DSC00885\_01.TIF\_DSC00886\_01.TIF

## 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

1/2 - 14 NPT, G 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](http://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.


**15/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; 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 ( $T_a = 40^\circ\text{C}$ ).

**16/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

**11/IA** ATEX Intrinsic Safety  
Certificate No.: Baseefa03ATEX0239X  II 1 G  
EEx ia IIC T4 ( $-20^\circ\text{C} \leq T_a \leq 60^\circ\text{C}$ )

 1180


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 ( $-20^\circ\text{C} \leq T_a \leq 80^\circ\text{C}$ )  
 $V_{\text{max}} = 42.4\text{V}$

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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)

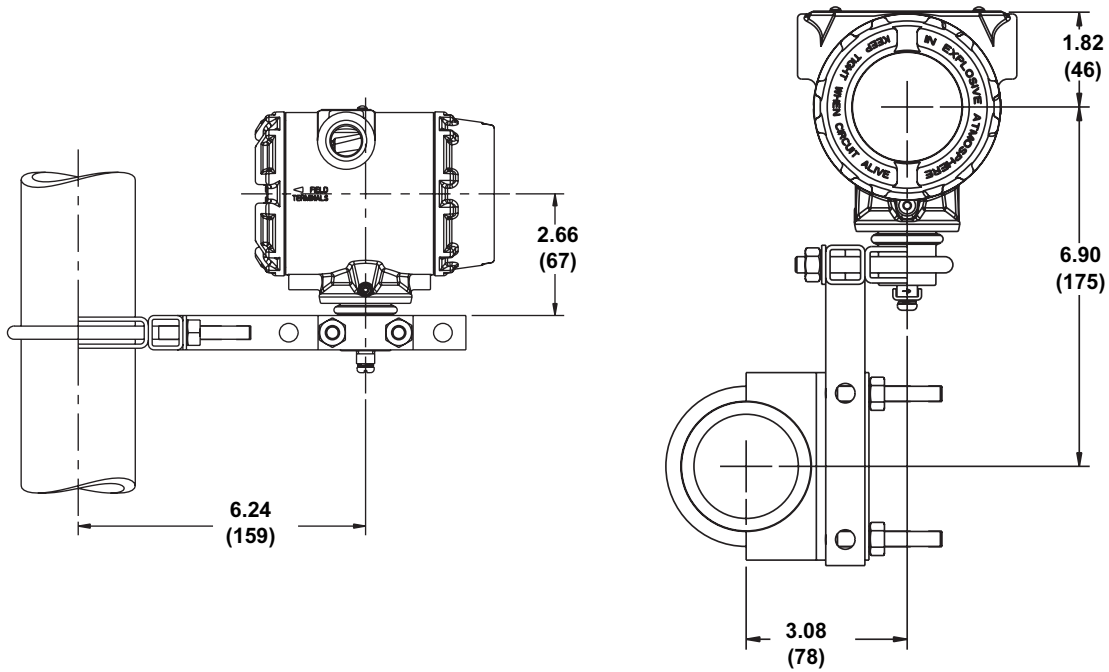
The apparatus is not capable of withstanding the 500V insulation test required by Clause 9.1 of EN 50021: 1999. This must be taken into account when installing the apparatus.

**ND** ATEX Dust  
Certificate No.: KEMA 03 ATEX2476  I D T105°C  
 $-20^\circ\text{C} \leq T_{\text{amb}} \leq 85^\circ\text{C}$   
 $V = 42.4\text{V Max}$   
 $A = 27\text{ mA}$   
IP66

Other Hazardous Location Approvals Pending.

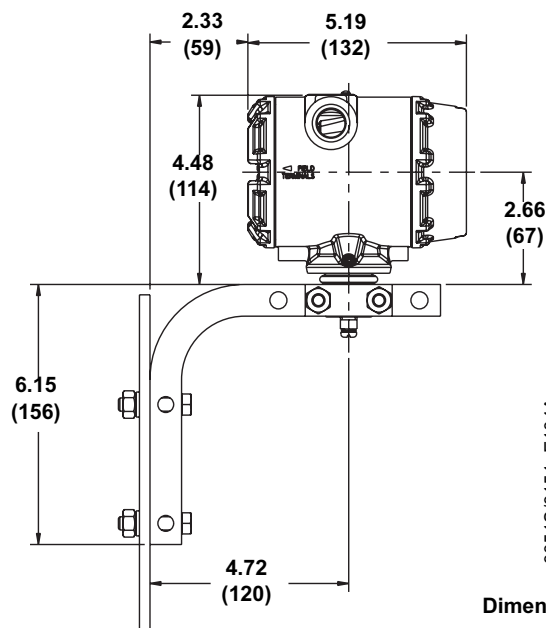
## Dimensional Drawings

FIGURE 3. Remote Pipe Mount Meter Mounting Configurations



3051S/3151\_C104A, 3151\_D104A

FIGURE 4. Remote Panel Mount Meter Mounting Configurations



3051S/3151\_E104A

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		
	<b>PlantWeb Control Anywhere Software</b>		
A01	Regulatory Control Suite: PID, arith, signal char, integ, etc.		
	<b>Product Certifications</b>		
E1	CENELEC Flame-Proof		
I1	CENELEC Intrinsic Safety		
IA	CENELEC FISCO Intrinsic Safety		
N1	CENELEC Type N		
K1	CENELEC Flame-Proof, 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	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		
	<b>Transient Terminal Block</b>		
T1	Transient Terminal Block		
	<b>Quick Conduit Connector</b>		
GE <sup>(1)</sup>	M12, 4-pin, Male Connector ( <i>euromast</i> <sup>®</sup> )		
GM <sup>(1)</sup>	A size Mini, 4-pin, Male Connector ( <i>minifast</i> <sup>®</sup> )		
<b>Typical Model Number: 752 F 1A A01 E1</b>			

(1) Not available with certain hazardous location certifications. Contact a Rosemount representative for details.



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