Model 751 Field Signal Indicator







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Model 751 Field Signal Indicator

NOTICE

Read this manual before working with the product. For personal and system safety, and for optimum product performance, make sure you thoroughly understand the contents before installing, using, or maintaining this product.

Within the United States, Rosemount Inc. has two toll-free assistance numbers:

Customer Central

Technical support, quoting, and order-related questions.

1-800-999-9307 (7:00 am to 7:00 pm CST)

North American Response Center

Equipment service needs.

1-800-654-7768 (24 hours—includes Canada)

Outside of the United States, contact your local Rosemount representative.

ACAUTION

The products described in this document are NOT designed for nuclear-qualified applications. Using non-nuclear qualified products in applications that require nuclear-qualified hardware or products may cause inaccurate readings.

For information on Rosemount nuclear-qualified products, contact your local Rosemount Sales Representative.





Table of Contents

SECTION 1	LCD Meter
Introduction	Analog Meter
SECTION 2 Installation	Assembly2-1Wiring Diagrams2-3LCD Meter Configuration2-5Remove the Cover2-5Position the Decimal Point and Select the Meter Function2-5Store the Information2-6Set the Display Equivalent to a 4 mA Signal2-6Set the Display Equivalent to a 20 mA Signal2-6Replace the Cover2-6
APPENDIX A Reference Data	Housing SpecificationsA-1Physical SpecificationsA-1LCD Meter SpecificationsA-2Functional SpecificationsA-2Performance SpecificationsA-3Physical SpecificationA-3Analog Meter SpecificationsA-4Functional SpecificationsA-4Performance SpecificationsA-4Dimensional SpecificationsA-4Physical SpecificationsA-4Performance SpecificationsA-4Portional SpecificationsA-4Physical SpecificationA-4Physical SpecificationA-4Dimensional DrawingsA-5Ordering InformationA-6
APPENDIX B Approvals	Hazardous Locations CertificationsB-1

APPENDIX C Approval Drawings





Reference Manual

00809-0100-4378, Rev BA July 2002

Section 1 Introduction

The Model 751 Field Signal Indicators provide a means of displaying important process variables. These devices operate with any two-wire transmitter that measures input variables such as pressure, flow, liquid level, or temperature. Rosemount indicators are ideal for installations where an integral meter would be difficult to view.

Model 751 Indicators are designed for use in industrial environments where all-weather performance is necessary. These units are vibration- and corrosion-resistant, and explosion-proof or intrinsically safe. An LCD meter or analog meter may be ordered to meet specific application requirements.

LCD METER The LCD meter requires an analog 4–20 mA dc output from a two-wire transmitter. It may be configured from a 4 mA point of –999 to 1000 and a 20mA point of -999 to 9999. The sum of the 4mA point and the span must not exceed 9999. The decimal point can be placed in any of three positions (X.X.X.X) or not used. Calibration adjustments are made using noninteractive zero and span buttons. The scaled meter may be labelled with the appropriate engineering units. A twenty-segment bar graph, on the bottom of the meter faceplate, represents the 4–20 mA signal directly.

The large 2¹/₄-inch meter face has ¹/₂-inch-high characters for easy readability as shown in Figure 1-1. The 4 and 20 mA points may be changed by pressing the buttons on the meter faceplate. The meter can be rotated in 90-degree increments within the enclosure for convenient viewing.



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Figure 1-1. LCD Meter



ANALOG METER

The analog meter requires an analog 4–20 mA dc, 10–50 mA dc, or 40–200 mV dc transmitter output from a two-wire transmitter. Several meter calibration options are available to suit the requirements of a particular application. Linear 0 to 100 percent meter scaling is adequate for the majority of applications. A logarithmic 0 to 100 percent scale is available for use with flow transmitters. As an option, the user can specify special meter scaling for direct readout in psi, gph, °F, °C, or other convenient engineering units.

The large 2¹/₄-inch diameter meter face has a two-inch long scale for easy readability as shown in Figure 1-2. A meter-zero adjustment is located on the meter faceplate. The meter can be rotated in 90-degree increments within the enclosure for convenient viewing.

Figure 1-2. Analog Meter



Reference Manual

00809-0100-4378, Rev BA July 2002

Section 2 Installation

Assemblypage	e 2-1
Wiring Diagramspage	2-3
LCD Meter Configurationpage	2-5

ASSEMBLY

The Model 751 Field Signal Indicator is comprised of the components shown in Figure 2-1. The housing may contain an analog or LCD meter. Both meters are independent of component parts and are completely interchangeable. Both meters plug into the terminal screws on the housing, as shown in Figure 2-1.

The meter subassembly contains the components shown in Figure 2-2.

Figure 2-1. Model 751 Exploded View





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Figure 2-2. Meter Exploded View



WIRING DIAGRAMS

Use the following wiring diagrams to wire the Model 751 Field Signal Indicator, in series or in parallel, with Rosemount transmitters. Use shielded cable for best results in electrically noisy environments.

Figure 2-3. Model 751 Series Wiring Diagrams



Figure 2-4. Model 751 Parallel Wiring Diagrams



LCD METER CONFIGURATION

Remove the Cover

The 20-segment bar graph is factory calibrated and represents 4–20 mA directly, but the end points of the LCD meter are user-definable. The meter requires a current between 4 and 20 mA in order to be scaled, but the actual value of the current is not significant.

AWARNING

Explosions can result in death or serious injury. Do not remove the instrument cover in explosive environments when the circuit is alive.

1. Unscrew and remove the transparent housing cover from the LCD meter body.

NOTE

The LCD meter time-out is approximately 16 seconds. If you do not press the configuration buttons within 16 seconds, the indicator will revert to reading the current signal.

- 2. Press the left and right configuration buttons simultaneously and release them immediately.
- 3. To move the decimal point to the desired location, press the left configuration button. Note that the decimal point wraps around.
- 4. To scroll through the mode options, press the right configuration button repeatedly until the meter displays the desired mode (See Table 2-1).

Options	Relationship between Input Signal and Digital Display
L in	Linear
LinF	Linear with five-second filter
Srt	Square root
SrtF	Square root with five-second filter
Square root function only linear with the current sign	relates to the digital display. The bar graph output remains al.

Square root response

The digital display will be proportional to the square root of the input current where 4 mA = 0 and 20 mA = 1.0, scaled per the calibration procedure. The transition point from linear to square root is at 25 percent of full scale flow.

Filter response operates upon "present input" and "input received in the previous five second interval" in the following manner:

Display = $(0.75 \times \text{previous input}) + (0.25 \times \text{present input})$ This relationship is maintained provided that the previous reading minus the present reading is less than 25 percent of full scale.

Position the Decimal Point and Select the Meter Function

Table 2-1. LCD Meter Mode Options

Model 751	Reference Manual 00809-0100-4378, Rev BA July 2002
Store the Information	 Press both configuration buttons simultaneously for two seconds. Note that the meter displays "" for approximately 7.5 seconds while the information is being stored.
Set the Display	6. Press the left configuration button for two seconds.
Equivalent to a 4 mA Signal	 To decrease the display numbers, press the left configuration button. To increase the numbers, press the right configuration button. Set the numbers between –999 and 1000.
	8. To store the information, simultaneously press both configuration buttons for two seconds.
Set the Display	9. Press the right configuration button for two seconds.
Equivalent to a 20 mA Signal	 To decrease the display numbers, press the left configuration button. To increase the numbers, press the right configuration button. Set the numbers between –999 and 9999. The sum of the 4 mA point and the span must not exceed 9999.
	11. To store the information, simultaneously press both configuration buttons for two seconds. The LCD meter is now configured.
Replace the Cover	 Make sure the rubber gasket is seated properly, and thread the transparent housing cover onto the LCD meter body.

Reference Manual

00809-0100-4378, Rev BA July 2002

Appendix A Reference Data

Housing Specifications	page A-1
LCD Meter Specifications	page A-2
Analog Meter Specifications	page A-4
Dimensional Drawings	page A-5
Ordering Information	page A-6

HOUSING SPECIFICATIONS

Physical Specifications

Materials of Construction

Enclosure

Low-copper aluminum

Paint Polyurethane

O-rings Buna N

Meter Mounting Materials Noryl[®] plastic

Electrical Connections

3-pole terminal block with 8–32 nickel-plated brass screw terminals, with $^{3}/_{4-}$ 14 NPT conduit. (Stainless steel $^{3}/_{4-}$ to $^{1}/_{2-}$ inch reducer available as an option.)

Enclosure Rating

NEMA Type 4x. CSA Type 4x. IP66.

Weight

Indicator only: 1.8 kg (4 lb) Indicator with optional mounting bracket: 2.27 (5 lb)





LCD METER SPECIFICATIONS

Functional Specifications

Input Signal 4–20 mA dc

Display

4 mA Point Limits

-999 to 1000

20 mA Point Limits

-999 to 9999

The sum of the 4 mA point and span must not exceed 9999. Adjustments are made using non-interactive zero and span buttons.

Display Options

Standard display response is linear with mA input. Optional square root or filtered response may be selected.

Overload Limitations

666 mA, maximum

Temperature Limits

Storage -40 to 85 °C (-40 to 185 °F)

Operating

-20 to 70 °C (–4 to 158 °F) -40 to –20 °C (–40 to –4 °F) loop is intact and the meter is not damaged

Humidity Limitation

0 to 95% non-condensing relative humidity

Update Period

750 ms

Response Time

Responds to changes in input within a maximum of two update periods. If the filter is activated, then the display responds to the change within nine update periods.

Voltage Drop

0.7 V dc typical, 1.0 V dc maximum

00809-0100-4378, Rev BA July 2002

Performance Specifications	Digital Display Resolution 0.05% of calibrated range ± 1 digit
	Analog Bar Graph Resolution 0.5% of calibrated range
	Indication Accuracy 0.25% of calibrated range ± 1 digit
	Stability 0.1% calibrated range ± 1 digit per six months
	Temperature Effect 0.01% of calibrated range per °C on zero 0.02% of calibrated range per °C on span over the operating temperature range
	Power Interrupt All calibration constants are stored in EEPROM memory and are not affected by power loss.
	Failure Mode LCD meter failure will not affect transmitter operation.
	Under/Over Range Indication Input current < 3.5 mA: Display blank Input current > 22.0 mA: Display flashes 112.5% of full scale value or 9999, whichever is less
Physical Specification	Meter Size 2 ¹ /4-inch diameter face with four ¹ /2-inch high characters

Model 751

ANALOG METER SPECIFICATIONS

Functional Specifications

Input Signal

- 4–20 mA dc
- 10–50 mA dc
- 40–200 mV

NOTE:

Maximum series resistance is ten ohms for ammeters.

Meter Indication 0 to 100% linear scale

0 to 100% flow scale Special optional ranges

Overload Limitation

150% of rated end scale value for two minutes

Temperature Limits -40 to 65 °C (-40 to 150 °F)

Humidity Limits 0 to 100% relative humidity

Zero Adjustment Adjustment screw on face of meter

Performance Specifications

Indication Accuracy ±2% of calibrated span

Temperature Effect Less than 2% of full scale at any point within the temperature limits

Physical Specification

Meter Size 2¹/4-inch diameter face with 2-inch long scale

DIMENSIONAL DRAWINGS



ORDERING INFORMATION

Model	Product Description
751	Remote Signal Indicator
Code	Input Signal
А	4–20 mA dc
В	10–50 mA dc (Not Available with LCD Meter)
С	40–200 mV dc (Not Available with LCD Meter)
Code	Meter Scale
M1	Linear Analog Meter, 0–100% Scale
M2	Square Root Analog Meter, 0–100% Flow
M3	Special Scaling Analog Meter (specify range)
M6	Square Root Analog Meter, 0–10 \checkmark
M4 ⁽¹⁾	Linear LCD Meter, 0–100% Scale
M7 ⁽¹⁾	Special Scale LCD Meter (specify range, mode, and engineering units)
M8 ⁽¹⁾	Square Root LCD Meter, 0–100% Flow
M9 ⁽¹⁾	Square Root LCD Meter, 0–10 \checkmark
Code	Hazardous Locations Certifications
NA	No Approval Required
E5	FM Explosion-proof approval
15	FM Intrinsic safety and non-incendive approval
K5	FM Intrinsic safety, non-incendive, and explosion-proof approval combination
E6	CSA Explosion-proof approval
16	CSA Intrinsic safety approval
C6	CSA Intrinsic safety, non-incendive, and explosion-proof approval combination
E7	SAA Flameproof approval
17	SAA Intrinsic safety approval
N7	SAA Type n approval
E8	CESI Explosion-proof approval
18	CESI Intrinsic safety approval
N1	BASEEFA Non-incendive approval
Code	Options
В	Mounting Bracket for Flat Surface or 2-inch Pipe
С	Stainless Steel Reducer ³ / ₄ - to ¹ / ₂ -inch for Conduit Connection (See Figure 1 for reference.)
Typical Mode	Number 751 A M1 NA BC

(1) May be reconfigured in the field.

Tagging

The indicator will be tagged, at no charge, in accordance with customer requirements. All tags are stainless steel. The standard tag is permanently attached to the indicator. Tag character height is 1/16 inch (1.6 mm). A wired-on tag is available upon request.

Model 751

Appendix B

HAZARDOUS LOCATIONS CERTIFICATIONS

Approvals

Factory Mutual (FM) Approvals

- E5 Explosion Proof for Class I, Division 1, Groups B, C, and D. Dust-Ignition Proof for Class II and III, Division 1, Groups E, F, and G. Indoor and outdoor use, NEMA Type 4X.
- Intrinsically safe for Class I, II, and III, Division 1, Groups A, B, C, D, E, F, and G hazardous locations in accordance with entity requirements and Rosemount drawing 01151-0214. Nonincendive for Class I, Division 2, Groups A, B, C, and D hazardous locations. Outdoor use, NEMA Type 4X.
- **K5** Combination of E5 and I5

Canadian Standards Association (CSA) Approvals

- E6 Explosion proof for Class I, Division 1, Groups C and D; Dust-Ignition Proof for Class II, Division 1, Groups E, F, and G and Class III, Division 1. Suitable for Class I, Division 2, Groups A, B, C, and D hazardous locations. CSA enclosure type 4X.
- I6 Intrinsically safe for Class I, Division 1, Groups A, B, C, and D. Intrinsic safety approval only when connected with approved barrier systems, see Rosemount drawing 00751-0068; CSA enclosure type 4X.
- C6 Combination of E6 and I6.

British Approvals Service for Electrical Equipment in Flammable Atmospheres (BASEEFA) Type N Approval

N1 Ex N II T6





Standards Association of Australia (SAA) Approvals

E7 Explosion proof approval Ex d IIB+H2 T6 Class I, Zone 1 DIP T6 Class II IP 65

SPECIAL CONDITIONS

CONDITIONS OF CERTIFICATION (X): For transmitters having NPT or PG cable entry thread, an appropriate flameproof thread adaptor shall be used to facilitate application of certified flameproof cable glands.

I7 Intrinsic safety approval Ex ia IIC T6 ($T_{amb} = 40^{\circ}C$) Ex ia IIC T5 ($T_{amb} = 70^{\circ}C$) Class I, Zone 0

SPECIAL CONDITIONS

CONDITIONS OF CERTIFICATION (X): The equipment has been assessed to the "Entity" concept and upon installation the barrier/entity parameters must be taken into account.

N7 Type n

Ex n IIC T6 ($T_{amb} = 40^{\circ}C$) Ex n IIC T5 ($T_{amb} = 70^{\circ}C$) Class I, Zone 2

Centro Electrotecnico Sperimentale Italiano (CESI) Approvals

- E8 Explosion proof approval Certificate No: 95.D.095 EEx d IIC T6 IP65
- Intrinsic safety approval Certificate No: 82.020X EEx ia IIC T6 IP65

SPECIAL CONDITIONS FOR SAFE USE (X)

The power supply units, or the safety barriers, used to supply measuring systems where meter series 751...18 are inserted, must be certified according to EN 50.014/50.020 standards and must have a short circuit current consistent with the instrument mounted inside the meter.

The temperature class corresponding to the meters series 751...18 and the equivalent inductance value (Leq), to mark on the nameplate are those of the instrument mounted inside the meter; such instrument must be provided with a COMPONENT CERTIFICATE according to EN 50.014/50.020 Stds.

Appendix C

Approval Drawings

This section contains the following drawings:

- Rosemount Drawing 00751-0068, Rev. A, 2 sheets: Model 751 CSA Intrinsic Safety Approval Configuration Installation.
- Rosemount Drawing 01151-0214, Rev. V, 6 sheets: Index of Intrinsically Safe Barrier Systems and Entity Parameters for 444, 1135, 1144, 1151, and 3051 Transmitters and 751 Field Signal Indicators.

You must follow the installation guidelines presented by these drawings in order to maintain certified ratings for installed instruments.







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ENTI	TY CONCEPT APPROVALS
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<u>Model 444</u>	
Class I, Div. 1, Groups A and B	
$V_{MAX} = 40V$	V_{OC} or V_{T} is less than or equal to 40V
$I_{MAX} = 165 \text{ mA}$	ISC or IT is less than or equal to 165 mA
$C_{I} = 0.044 \mu F$	CA is greater than 0.0441F
$L_{I} = 0$	L _A is greater than 0
Class I, Div. 1, Groups C and D	
$V_{MAX} = 40V$	V_{OC} or V_T is less than or equal to 40V
$I_{MAX} = 225 \text{ mA}$	I _{SC} or I _T is less than or equal to 225 mA
$C_{I} = 0.044 \mu F$	C _A is greater than 0.0441F
$L_{I} = 0$	L _A is greater than 0
<u>Model 751</u>	
Class I, Div. 1, Groups A and B	
$V_{MAX} = 40V$	V_{OC} or V_{T} is less than or equal to 40V
$I_{MAX} = 165 \text{ mA}$	I _{SC} or I _T is less than or equal to 165 mA
$C_{I} = 0$	C _A is greater than 0
$L_{I} = 0$	L _A is greater than 0
Class I, Div. 1, Groups C and D	
$V_{MAX} = 40V$	V_{OC} or V_T is less than or equal to 40V
$I_{MAX} = 225 \text{ mA}$	I_{SC} or I_T is less than or equal to 225 mA
$C_I = 0$	CA is greater than 0
$L_{I} = 0$	L _A is greater than 0
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Model and 1151	MASTER				
Class I Div 1 Groups A and B					
$V_{MAX} = 40V$	Voc or V_{T} is less than or equal to 40V				
$V_{MAX} = 165 \text{ m}$	V_{0} or V_{1} is less than or equal to 165 mA				
$I_{MAX} = 105 \text{ mA}$ Cr(1151 Std) = 0	C_{A} is greater than 0				
$C_1(1151510) = 0$	C_A is greater than $0.024\mu E$				
$C_{1}(1151 \text{ Std} = 0.024 \mu \text{F}) = 0.010 \mu \text{F}$	C_A is greater than 0.024μ				
$C_{1151} \text{ Stu w/R Option} = 0.034 \text{ wF}$	C_A is greater than $0.034\mu F$				
$C_{I}(1151 \text{ Smart w/R_Option}) = 0.054 \mu \text{r}^{-1}$	C_A is greater than 0.				
$L_{I}(1151 \text{ std}) = 0$	LA is greater than 20 ull				
$EI(1131 \text{ w/R}_Option) = 20\mu \text{H}$	$L_{\rm A}$ is greater than 20 μ H				
Class I, Div. 1, Groups C and D					
$V_{MAX} = 40V$	V_{OC} or V_{T} is less than or equal to 40V				
$I_{MAX} = 225 \text{ mA}$	I_{SC} or I_T is less than or equal to 225 mA				
$C_{I}(1151 \text{ Std}) = 0$	CA is greater than 0				
$C_{I}(Smart 1151) = 0.024 \mu F$	$\mathrm{C}_{\mathbf{A}}$ is greater than 0.024 $\mu\mathrm{F}$				
$C_{I}(1151 \text{ Std w/R Option}) = 0.010 \mu F$	C_A is greater than 0.010 μ F				
$C_{I}(1151 \text{ Smart w/R_Option}) = 0.034 \mu F$	C_A is greater than 0.034 μ F				
$L_{I}(1151 \text{ Std}) = 0$	L _A is greater than 0				
$L_{I}(1151 \text{ w/R}_Option) = 20\mu H$	L_A is greater than 20 μ H				
<u>Model 2051</u>					
Class I, Div. 1, Groups A and B					
$V_{MAX} = 40V$	V_{OC} or V_{T} is less than or equal to 40V				
$I_{MAX} = 165 \text{ mA}$	I_{SC} or I_T is less than or equal to 165 mA				
$C_{I} = 0.012\mu F$	C _A is greater than 0.012lF				
$L_{I} = 480\mu H$	L_A is greater than 4801H				
Class I. Div. 1, Groups C and D					
$V_{MAX} = 40V$	V_{OC} or V_{T} is less than or equal to 40V				
$I_{MAX} = 225 \text{ mA}$	I_{SC} or I_T is less than or equal to 225 mA				
$C_{I} = 0.012\mu F$	C_A is greater than 0.012lF				
$L_{I} = 480\mu H$	L_A is greater than 4801H				
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