Rosemount 753R Web Based Monitoring Indicator
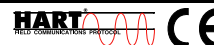
- *Complete web based monitoring solution from measurement to a secure user interface via iTraX® located on Rosemount.com*

- *Automate your manual monitoring applications such as inventory management*

- *Scalable and flexible design platform enables easy and cost effective installation practices*

- *Standard HART® interface for simple integration*

Contents

ROSEMOUNT®

EMERSON™
Process Management

Minimize Risk. Maximize Business Performance.

Remote Inventory Monitoring

- Monitor inventory levels 24 hours a day via the web
- Supports Rosemount HART® measurement instrumentation
- Fully integrated hardware solution available with the Rosemount 3051S
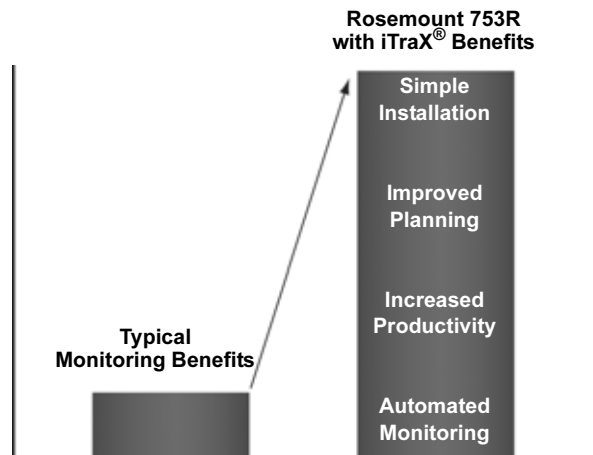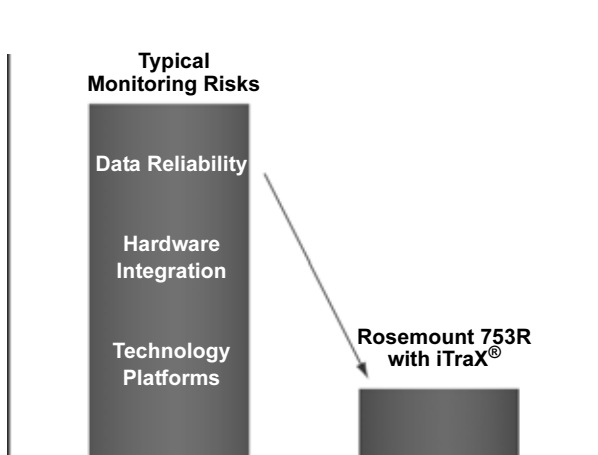
Minimize Risk

- Eliminate costly tank outages at customer sites
- Mitigate installation and incompatibility risk with a fully integrated and truly wireless solution
- Standardize operations on a single innovative solution platform
- Depend on the reliability and support from the global automation industry leader
- Best-in-class measurement performance, quality, and reliability

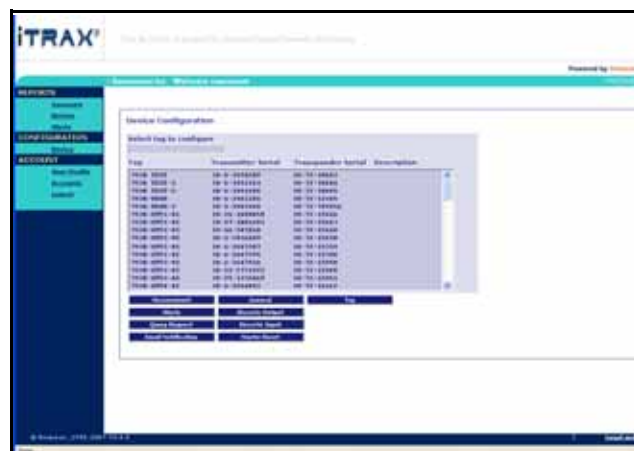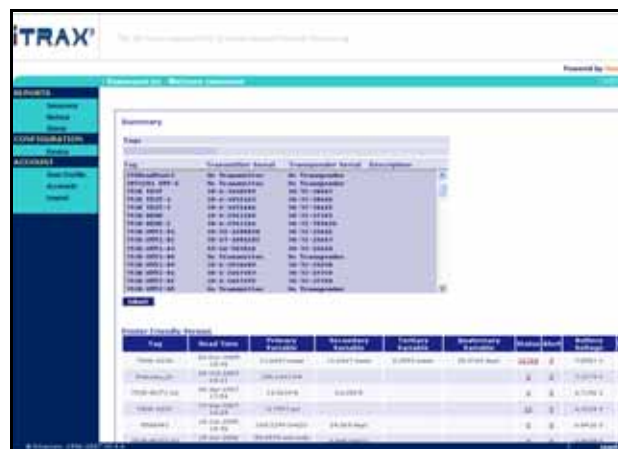## Maximize Business Performance

- Eliminate unneeded truck deliveries for partial fill
- Automated monitoring to support just-in-time inventory and deliveries
- Improve production planning to anticipate customer demand
- Increase efficiency and productivity for an improved bottom line
- Cost effectively monitor your inventory with readings and often as every 15 minutes

Typical Monitoring Risks

Data Reliability

Hardware Integration

Technology Platforms

Rosemount 753R with iTraX®

Rosemount 753R with iTraX® Benefits

Simple Installation

Improved Planning

Increased Productivity

Automated Monitoring

Typical Monitoring Benefits

ITRAX WEB INTERFACE

Scalable and Flexible

- Global implementation with a single platform
- Any remote measurement monitoring need
- Secure and user-friendly interface via standard internet browser
- Automated iTraX®-to-customer database transfer into user ERP system (optional)
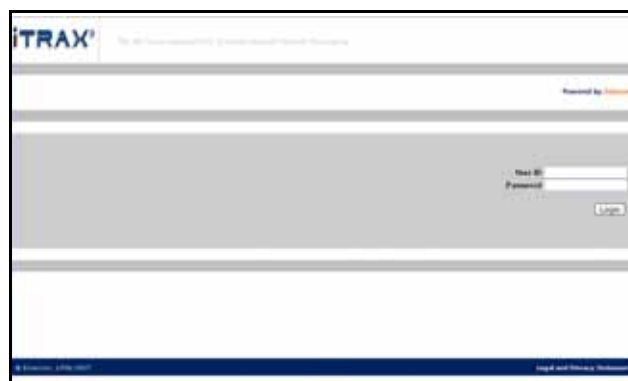

Full Functionality

- Remote device configuration
- Complete data historian
- Advanced measurement monitoring
- Alert notifications via email or pager
- Customer-managed accounts

Secure Interface

Centralized server at Tier 1 facility:

- Redundant network and facility
- State of the art encryption and authentication
- Data backup and recovery capabilities
- iTraX® Server with uninterruptible power supply (UPS) backup
- Secure login

Rosemount 753R Features

- GSM/GPRS
- Broad multi-provider network coverage
- Modular and scalable hardware architecture
- Built-in system diagnostic capabilities

- 3 line LCD display
- Scheduled and event driven transmissions
- Store and forward data logging for up to 400 readings

753R REMOTE MOUNT

Figure 1. 753R Remote Mount with Remote Power Supply

Figure 2. 753R Remote Mount with 6-24 Vdc Line Power

753R WITH INTEGRATED PRESSURE TRANSMITTER

Figure 3. 753R with Integrated Pressure Transmitter and Remote Power Supply

Figure 4. 753R with Integrated Pressure Transmitter and 6-24 Vdc Line Power

Specifications

FUNCTIONAL SPECIFICATIONS

Power Supply

External Power Supply (Power Source Option S0)
Voltage = 6 to 24 Vdc
Power = 1.5 watts max

Remote Power Supply (Power Source Option S1)
Rosemount Remote Power Supply with solar panel and battery (advanced power management for up to 5 years battery life)

Temperature Limits

Ambient
-4 to 140 °F (-20 to 60 °C)

Storage
-40 to 185 °F (-40 to 85 °C)

Humidity Limits
0-100% relative humidity

Vibration
Suitable for 60-2000 Hz 2g as specified in IEC 60770-1

PHYSICAL SPECIFICATIONS

Electrical Connections
½ - 14 NPT conduit

Paint
Polyurethane

Cover O-rings
Buna-N

Shipping Weights

Table Wireless-1. Transmitter Weights without Options

Transmitter Package	Add Weight In lb (kg)
753R Housing and RPS (see Figure 1 on page 4)	5.8 (2.63)
753R Housing only (see Figure 2 on page 4)	3.6 (1.63)
753R Housing, RPS, and Integrated Pressure Transmitter (see Figure 3 on page 4)	8.9 (4.04)
753R and Integrated Pressure Transmitter (see Figure 4 on page 4)	6.7 (3.04)

NOTICE

The Rosemount 753R Web Based Monitoring Indicator relies on third party cellular network service for communications. The Rosemount 753R Web Based Monitoring Indicator may not function properly during cellular network service failures.

⚠WARNING

Use of this device in control loops could result in death or serious injury.

The Rosemount 753R Web Based Monitoring Indicator is designed for monitoring use only. Do not use for control or feedback applications.

Please consult the Rosemount 753R Web Based Monitoring Indicator Product Manual for important additional information concerning the proper installation and use of this product.

Product Certifications

NOTE

The Rosemount 753R is intended for monitoring purposes only.

The Rosemount 753R is intended for web based monitoring applications and is not designed to integrate into process control systems.

Approved Manufacturing Locations

Rosemount Inc. — Chanhassen, Minnesota   USA

Telecommunication/EMC Compliance

FCC ID: IHDT56DB/IC ID: 109O-DB1 is contained within.

This device has met the applicable requirements of the R&TTE Directive.

CE

This device has met the applicable requirements of the EMC Directive 2004/108/EC

Ordinary Locations Certifications for FM

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

Hazardous Locations Certifications

USA and Canadian Certifications

Factory Mutual (FM) Approvals

N5   **FM Class I, Division 2**
USA Certificate Number: 3023264
Canadian Certificate Number: 3027229C
Class I, Division 2, Groups A, B, C, and D;
Temperature Class T4 Ta = 70 °C
Enclosure Type 3R

Note: To maintain a Type 3R enclosure, the solar panel must be pointed upwards.

WARNING

Substitution of components may impair suitability for Division 2.

Explosion Hazard. Do not disconnect equipment when a flammable or combustible atmosphere is present.

Explosion Hazard. Do not open enclosure or replace battery when flammable or combustible atmosphere is present.
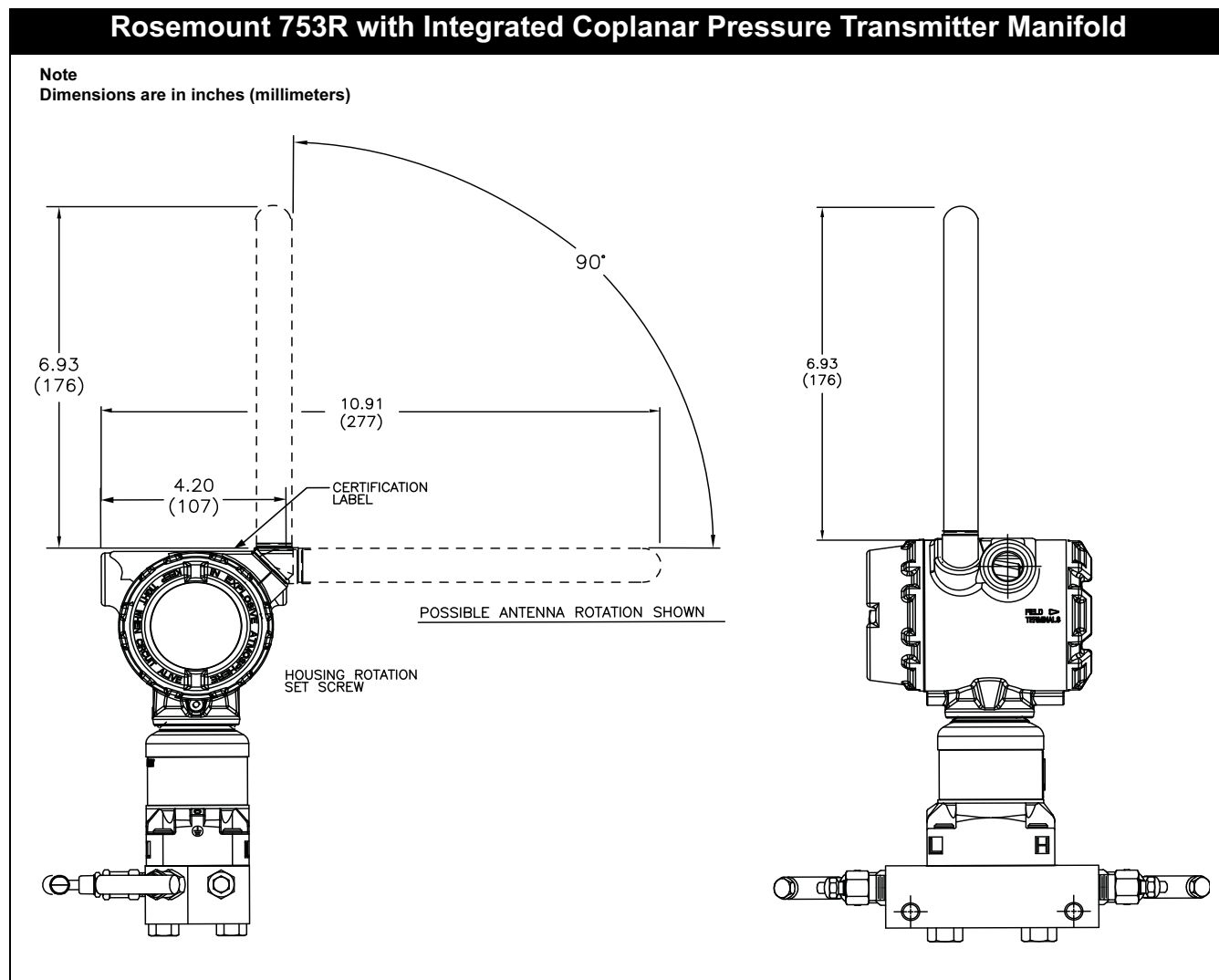
AVERTISMENT

La substitution des composants peut alterer la convenance a Division 2.

Risque d'explosion. Ne debranchez pas l'equipment quand une atmosphere inflammable ou combustible est presente.

Risque d'explosion. N'ouvrez pas la cloture ou ne remplacez pas la batterie quand l'atmosphere inflammable ou combustible est presente.
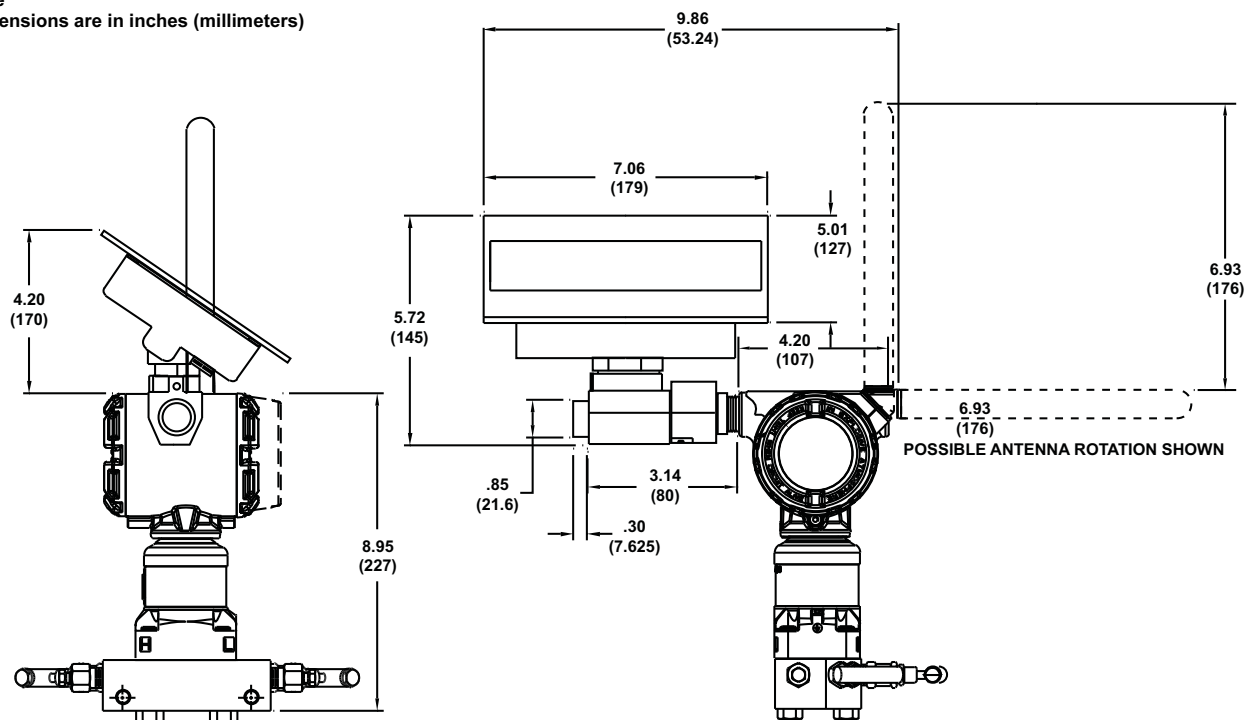
Dimensional Drawings

Rosemount 753R with Integrated Coplanar Pressure Transmitter Manifold
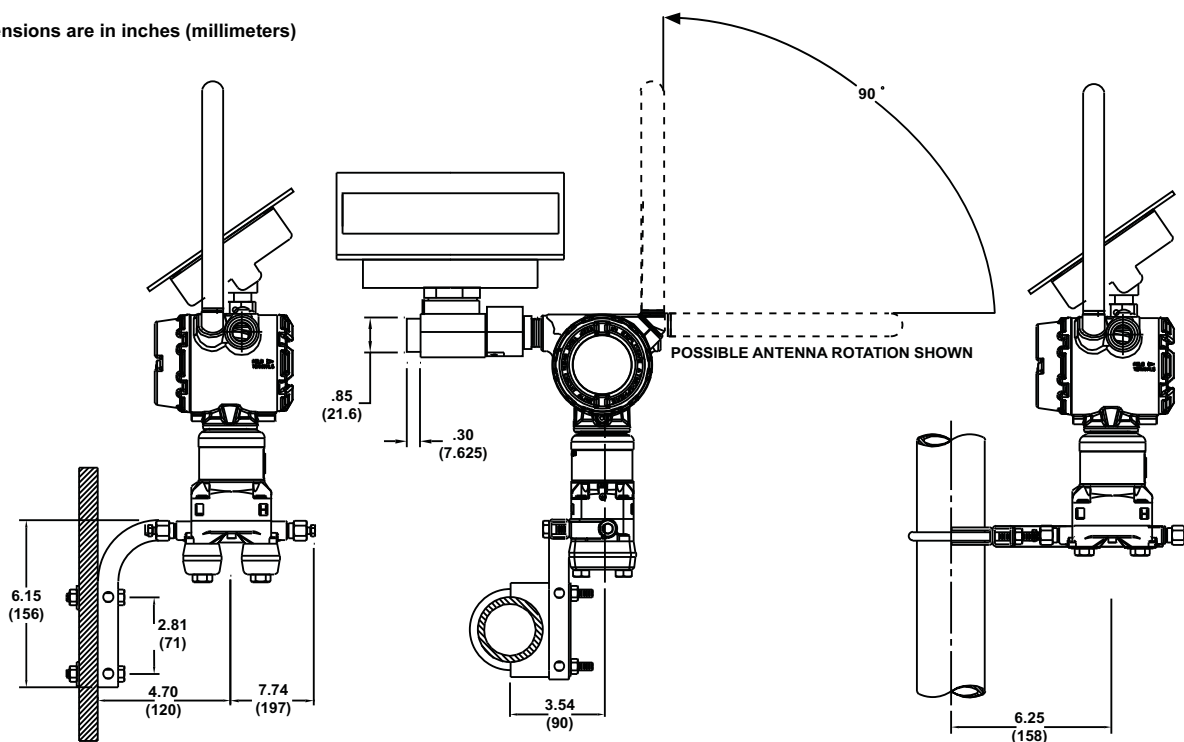
Note
Dimensions are in inches (millimeters)

Rosemount 753R with Integrated Coplanar Pressure Transmitter Manifold and Remote Power Supply
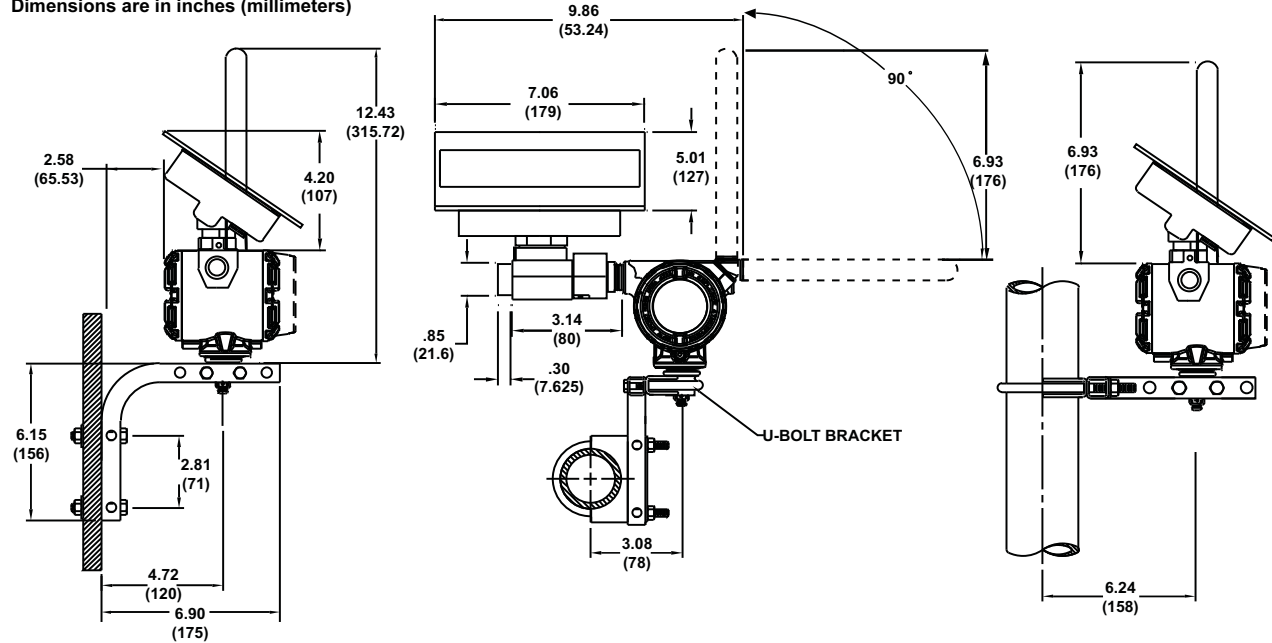
Note
Dimensions are in inches (millimeters)

Rosemount 753R with a Coplanar Mounting Bracket

Note
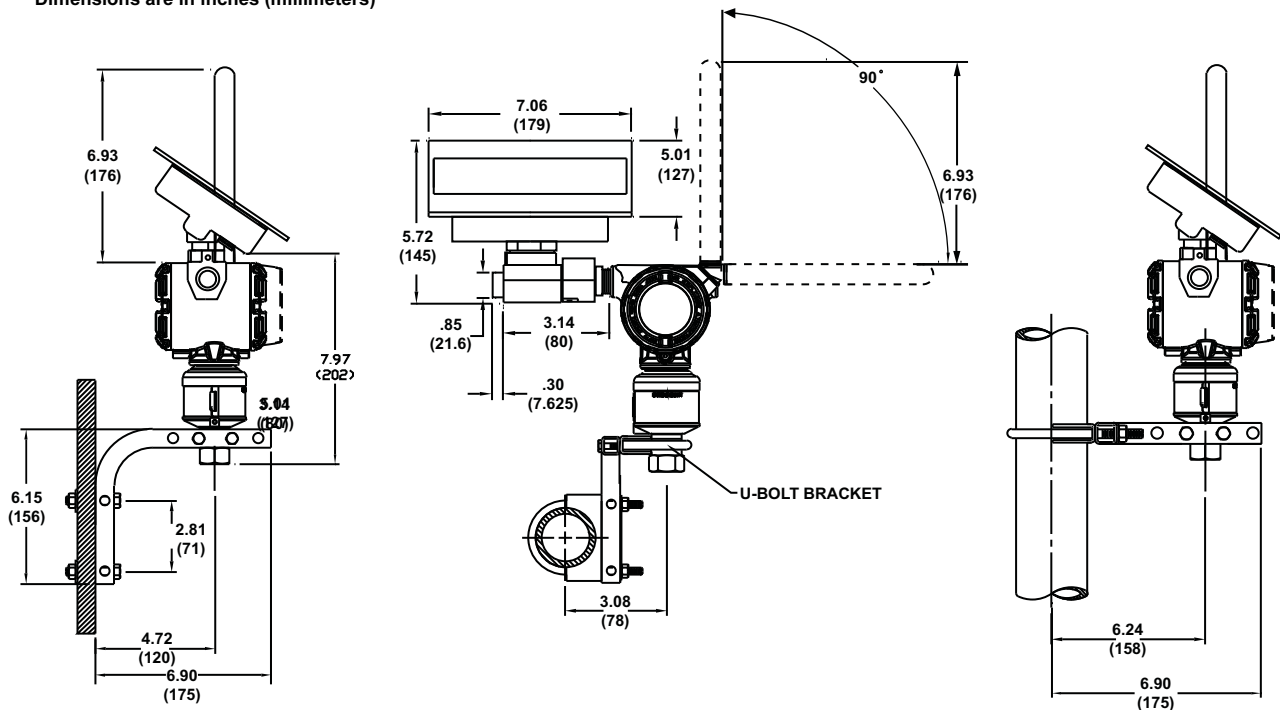**Dimensions are in inches (millimeters)**

Rosemount 753R - Remote Power Supply

Note
Dimensions are in inches (millimeters)

9.86
(53.24)

7.06
(179)

90°

6.93
(176)

6.93
(176)

5.01
(127)

12.43
(315.72)

2.58
(65.53)

4.20
(107)

.85
(21.6)

3.14
(80)

.30
(7.625)

U-BOLT BRACKET

6.15
(156)

2.81
(71)

4.72
(120)

6.90
(175)

3.08
(78)

6.24
(158)

Rosemount 753R Remote Power Supply In-Line Mounting Configuration

Note
Dimensions are in inches (millimeters)

7.06
(179)

90°

6.93
(176)

6.93
(176)

5.01
(127)

5.72
(145)

.85
(21.6)

3.14
(80)

.30
(7.625)

7.97
(202)

5.04
(120)

U-BOLT BRACKET

6.15
(156)

2.81
(71)

4.72
(120)

6.90
(175)

3.08
(78)

6.24
(158)

6.90
(175)

Ordering Information

Model	Product Description		
753R	Web Based Monitoring Indicator		
Code	**Communications**		
G	GSM/GPRS Wireless To iTraX®		
Code	**Assembly Configuration**		
0	Assemble to a Rosemount 3051S Pressure Transmitter		
1	Remote Mounted Housing Assembly		
2	Assemble to a Rosemount 3051S Pressure Transmitter and a Remote Mounted Sensor[1][2]		
Code	**Measurement Point Protocol**		
H0	4-20mA/HART Transmitter Input		
Code	**Housing Style**	**Material**	**Conduit Entry Size**
1A	*PlantWeb* Housing	Aluminum	$^1/_2$-14 NPT
Code	**Power Source**		
S0AA	No Power Accessories (Local Line Power 6-24 Vdc)		
S1AA[3]	Solar Panel and Battery (Size: 1.5W)		
Code	**Final Destination of Product (Communications Approval)**		
01	USA		
02	Canada		
03	Mexico		
04	Spain		
05	Brazil		
06	Argentina[1]		
Code	**Other Options**		
	Discrete I/O		
Y1	Discrete I/O (1 Dry Contact) (Consult factory for availability)		
	Meters		
M5[4]	*PlantWeb* LCD Display		
	Product Certifications		
N5	FM Class I, Division 2 for U.S.A. and Canada		
Typical Model Number:	**753R G 1 H0 1A S1AA 01 M5**		

(1) Consult factory for availability
(2) Only available with Final Destination Code 01 USA
(3) Required for Final Destination Code 04 Spain, 05 Brazil, and 06 Argentina
(4) Required on all units

ITRAX® TRANSMISSION ORDERING INFORMATION

Note: Required with each Rosemount 753R Web Based Monitoring Indicator

Description	Invoice Interval	Part Number
4 readings, 1 transmission per day, 1 Alarm allowance per day	**Monthly**	00753-9100-0112
12 readings, 3 transmission per day, 1 Alarm allowance per day	**Monthly**	00753-9100-0312
48 readings, 12 transmission per day, 2 Alarm allowances per day	**Monthly**	00753-9100-1212
96 readings, 24 transmission per day, 2 Alarm allowances per day	**Monthly**	00753-9100-2412

Rosemount 753R Indicator

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