

Rosemount™ 9000 Series™ Magnetic Flow Transmitters



The Rosemount 9732 Magnetic Flow Transmitter sets a new benchmark in magnetic flow measurement technology. The flagship transmitter of the 9000 Series portfolio, it delivers industry-leading accuracy, intelligent diagnostics, and unmatched ease of use, ensuring superior performance in even the most demanding environments. When paired with the Rosemount 9000 Magnetic Flow Sensor, this combination offers a fully integrated solution designed for maximum reliability, simplified installation, and optimized lifecycle performance.

- **Performance** – Delivers enhanced accuracy, stability, and responsiveness with advanced digital signal processing and diagnostics.
 - Standard accuracy: 0.25% of rate
 - High accuracy: 0.15% of rate
- **Smart diagnostics** – Smart Meter Verification Basic and Professional, Coated Electrode Detection, Empty Pipe Detection, and Smart Fluid Diagnostics for proactive maintenance and process insight.
- **User-centric design** – Features a universal power supply, intuitive Local Operator Interface (LOI), universal service port, and streamlined configuration tools for fast commissioning, simplified troubleshooting, and effortless integration into any process environment.

Rosemount 9000 Series overview

The Rosemount 9000 Series Magnetic Flow Meters are designed to deliver next-generation performance, intelligent diagnostics, and exceptional ease of use—designed to meet the evolving needs of modern flow measurement across industries.

Rosemount 9205 Magnetic Flow Sensor

Engineered with optimized magnetics and a redesigned housing, the 9205 sensor delivers faster, more stable magnetic field performance. It features simplified remote wiring and improved energy efficiency—ideal for hazardous environments and sustainability-focused operations.

Refer to the *9000 Series Sensor Product Data Sheet* for more information.

Rosemount 9732 Magnetic Flow Transmitter

The 9732 transmitter brings high-speed processing, advanced diagnostics, and a streamlined user experience. It includes a Local Operator Interface (LOI) for intuitive configuration and troubleshooting, and a Universal Service Port for fast access to configuration files, logs, and firmware updates. It supports both AC and DC power, simplifying installation and reducing setup errors.

Access information when you need it with asset tags

Newly shipped devices include a unique QR code asset tag that enables you to access serialized information directly from the device. With this capability, you can:

- Access device drawings, diagrams, technical documentation, and troubleshooting information in your MyEmerson account
- Improve mean time to repair and maintain efficiency
- Ensure confidence that you have located the correct device
- Eliminate the time-consuming process of locating and transcribing nameplates to view asset information

9732 Key Capabilities

Smart diagnostics

- Monitor the health of the sensor and transmitter, providing real-time assurance of measurement integrity without interrupting the process with Smart Meter Verification.
- Identifies buildup that may affect measurement accuracy with Coated Electrode Detection
- Minimizes false readings in batching and low-flow applications with tunable Empty Pipe Detection
- Helps detect oil-in-water, particulates, or electrical noise interference with Smart Fluid Diagnostics
- Achieve quick, accurate flow meter troubleshooting without external tools using Sensor Health Test

Superior communication and connectivity

- Flexible input and output options allow users to tailor signal routing and control logic to meet specific application needs, improving integration and control system compatibility with configurable input and outputs
- Simplify configuration, troubleshooting without specialized tools, and process data download with the Universal Service Port
- Fast and easy access to key parameters and diagnostics on the graphical local operator interface with the Quick Menu

- Enable wireless configuration, diagnostics, and maintenance, streamlining field operations and reduce time in hazardous areas with Bluetooth® communication¹

Robust data logging

- Standard audit trail, alarm history, totalizer, and security logs for traceability and compliance
- Access to previous 20 Smart Meter Verification reports to verify meter health with the SMV log²
- Automatically captures process and diagnostics data directly at the device with Data historian³

Engineered for a wide range of applications

- Supports both AC and DC power without field reconfiguration and reduces inventory requirements
- Simplified installation and cable complexity with 4-wire remote cable design
- Comply with stringent safety integrity requirements for critical process applications with SIL 2/3 certification⁴
- Eliminate grounding ring selection and compatibility concerns while reducing installation time and complexity with Floating Ground Reference and 3rd electrode
- Optimize performance for challenging applications and minimum process noise with selectable coil drive frequency and Advanced Digital Signal Processing
- Minimum conductivity of 2μ S/cm (2 micromho/cm)
 - Minimum conductivity of 1μ S/cm (1 micromho/cm) with fluouopolymer (PTFE and PFA) liners
- In reduced straight-run installations, Short Run Install^(x) applies a proprietary compensation algorithm to reduce installation-induced accuracy shift to within ±0.5% of rate, without requiring additional hardware.

(1) Requires B display option code.
(2) Requires MV option code.

(3) Requires HS option code.
(4) Requires SI safety certification option code.

(x) Requires SR1 option code

Transmitter features

Advanced design features deliver accuracy, flexibility, and ease of use:

- Universal power supply
 - No need to specify power type or worry about field changes, just connect and go.
- Universal service port
 - Access configuration files, download logs, update firmware, and transfer licenses—all through a single, always-on port.
- Three configurable/licensable inputs and outputs
 - Tailor signal outputs to your process needs while simplifying integration and reducing hardware complexity.
- Simplified remote cabling
 - Reduce installation complexity, minimize downtime, and maintain compliance in hazardous areas.
- Selectable coil drive frequency
 - Eliminate erratic flow readings by switching the coil drive frequency away from the noise band.
- Advanced Digital Signal Processing
 - Ensures stable, reliable performance even in the most challenging process conditions—so you can optimize operations, reduce downtime, and maintain compliance with confidence.

Standard diagnostics

Built-in diagnostics ensure reliable performance and proactive issue detection.

- Sensor Health Test provides a quick, in-situ check of sensor and wiring health, allowing issues to be detected early and maintenance to be planned before performance is impacted.
- Grounding and wiring fault detection helps verify that installations are completed correctly, ensuring proper system ground and wiring setup.
- Reverse flow enables flow measurement in the opposite direction of the designated flow arrow.
- Empty pipe detection identifies when the pipe is empty and automatically sets flow to zero.
- Standard data logging capabilities provide comprehensive traceability, security, and operating insights.
 - Totalizer log contains totalizer data (up to 4 totalizers).
 - Audit trail log tracks configuration changes (1,000 entries).
 - Alert log captures device alerts (1,000 entries).
 - Security log captures incorrect password or parameters.

9732 Transmitter optional features

Process diagnostics (DS1 option code)

- High Process Noise
 - Detect unreliable measurements early to help prevent process upsets, safety risks, and compliance violations before they escalate.
- Electrode Coating Diagnostic
 - Detects coating buildup on measurement electrodes which can cause flow reading interference.
- Smart Fluid Diagnostics
 - Continuously characterizes noise profile in the flow signal to detect changes in process conditions.

- Detect subtle changes in process conditions that may impact measurement accuracy, measurement confidence, and signal stability.

SMART™ Meter Verification Professional (MV option code)

- Allows verification of the flow meter calibration without removing the sensor from the process.
- Smart Meter Verification Basic (included with all 9000 Series transmitters):
 - Establishes a baseline for the meter
 - Provides access to SMV measurement values
 - Achieves quick, accurate flow meter troubleshooting without the use of external tools through Sensor Health Test
 - Provides simple pass/fail results of meter health
- Smart Meter Verification Professional is a licensed option providing customizable SMV test criteria, scheduled and continuous SMV, a log of the previous 20 SMV reports, and a printable report when paired with ProLink Basic or Professional software.

Table 1: Smart Meter Verification capabilities

Capability	Basic	Professional 90-day trial, licensed
SMV baseline	•	•
SMV pass/fail	•	•
SMV measurement values	•	•
Sensor Health Test	•	•
Configurable test criteria		•
Print previous 20 SMV reports		•
Schedulable SMV		•
Continuous SMV		•

Historian (HS option code)

- Automatically captures process and diagnostic data directly at the device—no external historian required
- Enables trend analysis, troubleshooting, and performance insights
- Fast and slow recording modes:
 - 1-sec data stored for up to 11 days
 - 10-minute averaged data stored for up to 1 year

Short Run Install (SR1 option code)

- Enables high-accuracy flow measurement in installations with reduced upstream and downstream straight piping, improving flexibility in space-constrained applications
- Applies a proprietary compensation algorithm to reduce installation-induced accuracy shift to within ±0.5% of rate
- Automatically adjusts for common upstream disturbances without requiring additional hardware or added pressure drop
- Licensable option that can be configured at the time of order or enabled later in the field, allowing flexible deployment based on application needs.

Graphical Display (Display G option code)

- User interface module can rotate 360° in 90° increments by software selection:
 - Four capacitive buttons for local operation without removing transmitter housing cover
 - Display can be configured to scroll through displayed variables at user-specified rate
 - Display update rate is user-configurable: 500 to 10,000 milliseconds
 - Start, stop, and reset totalizers
- Fast and easy access to key parameters and diagnostics with the Quick Menu
- Bluetooth® wireless technology display option available, with a typical range of 49 ft (14.94 m)⁵

Mounting configuration

- Available for integral mount or remote mount installations
- The sixth character of the transmitter model number indicates the installation type

Figure 2-1: Installation type indication for the 9732 transmitters

9732ATxxxxxx - Integral Field Mount	9732ARxxxxxx - Remote Field Mount
	

- For both integral mount and remote mount, the power supply and inputs/outputs (I/O) must be field wired to the transmitter.
- For remote mount configurations, the transmitter must be field wired to the sensor with connecting cable.

(5) Required Display option code B.

Ordering flow meter equipment

Ordering procedure

When ordering, select the desired transmitter by specifying the model code from the ordering tables.

Standard configuration

Unless the Configuration Data Sheet (option code C1) is completed, Emerson will ship the transmitter with the following default conditions:

Engineering units	ft/sec
Lower range value (LRV), 4 mA	0
Upper range value (URV), 20 mA	30
Sensor size	3-in
Empty pipe	On

When you order a transmitter and sensor together, Emerson will configure the transmitter with the appropriate sensor line size and calibration data.

Custom configuration

Emerson offers standard factory configuration for all Rosemount Magnetic Flow Meters, including the 9000 Series, to simplify commissioning and reduce setup time. Standard configuration includes key parameters such as:

- Line size
- Flow units
- Transmitter output channel assignments

For more advanced configuration requirements, such as HART communication, advanced options, diagnostics, Smart Meter Verification, totalizing, or display settings, select Option Code C1 (Custom Configuration).

When ordering a transmitter with Option Code C1, the Rosemount 9000 Series Configuration Data Sheet (MS-00806-0100-9001) must be completed and submitted at the time of order to ensure full customization of the meter prior to shipment.

Standard tagging

- Customer tag
 - A customer-specified transmitter tag name can be laser printed on a SST tag attached to the meter.
 - 1 line, 25 characters maximum, text height 5 pt (0.05 in, 1.3 mm)
- Wire-on tag (available)
 - 316 SST laser etched tag
 - 5 lines, 17 characters per line, text height 9 pt (0.125 in, 3.2 mm)

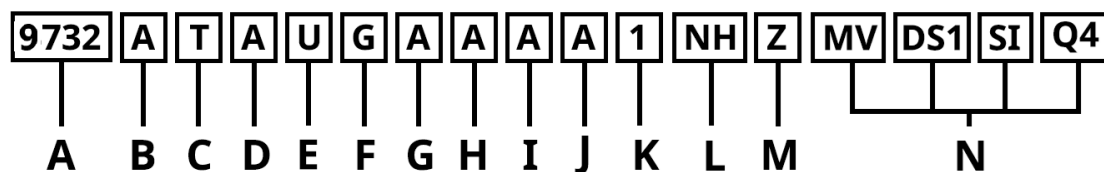
Remote cable

- A 4-wire remote cable is required for all remote mount installations. 10 feet of standard 4-wire remote cable is included with all remote mount transmitter configurations unless a remote cable specified. Please see [“Remote cable”](#) ordering section for all available remote cables.

Ordering 9732 Transmitter

Model code structure

Figure 3-1: Guide to Model Code Structure



- A. Base model**
- B. Transmitter revision level**
- C. Transmitter mounting configuration**
- D. Transmitter housing material**
- E. Transmitter power supply**
- F. Display option**
- G. Output hardware board**
- H. Transmitter output channel A**
- I. Transmitter output channel B**
- J. Transmitter output channel C**
- K. Conduit entry**
- L. Safety approvals**
- M. Ordering design**
- N. Optional selections**

Required selections

Features A through M are required selections.
Select one from each table.

Note:

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

Model code

Code	Description	Common Option
9732	Rosemount 9732 Magnetic Flow Transmitter	★

Revision level

Code	Description	Common Option
A	Revision level A	★

Transmitter mounting configuration

Code	Description	Common Option
T	Integral field mount	★

Transmitter housing material

Code	Description	Common Option
A	Aluminum Housing	★

Transmitter power supply

Code	Description	Common Option
U	Universal power supply (18 - 100 Vdc, 85 - 240 Vac, 50/60 Hz), self-switching	★

Display option

Code	Description	Common Option
N	No display, blind cover	★
G	Backlit graphic display with local operator interface (LOI)	

Output hardware board

Code	Description	Common Option
A	Configurable outputs	★

Transmitter output Channel A

Code	Description	Common Option
A	4-20 mA, HART®, FO, discrete output (DO), configurable	★
Z	Channel off	★

Transmitter output Channel B

Code	Description	Common Option
A	4-20 mA, FO, discrete input (DI), discrete output (DO), configurable	★
Z	Channel off	★

Transmitter output Channel C

Code	Description	Common Option
A	RS-485 Modbus	★
Z	Channel off	★

Conduit entry

Code	Description	Common Option
1	½-inch - 14 NPT	★
2	M20	★

Safety approvals

Code	Description	Common Option
NH	Ordinary location (non-hazardous)	★
U0	Hydronic Flows in Ordinary Locations (non-hazardous) for use with 8795 only	★
ND	ATEX Dust (Ex tb)	★
NF	IECEX Dust (Ex tb)	★
N1	ATEX Increased Safety (Ex ec); Dust (Ex tb)	★
N5	US NI Class I Div 2 Groups ABCD; DIP Class II/III Div 1, Groups EFG	★
N6	CAN NI Class I Div 2 Groups ABCD; DIP Class II/III Div 1, Groups EFG	★
N7	IECEX Increased Safety (Ex ec) and Dust (Ex tb)	★
NC	US/CAN Class I Zone 2 (Ex ec); Class I Zone 21 (Ex tb)	★
E1	ATEX Flameproof/Increased Safety with Ex i Core Processor/Sensor (Ex db eb [ia]; Dust (Ex tb)	★
E5	US XP Class I Div 1 Groups BCD; NI Class I Div 2 Groups ABCD; DIP Class II/III Div 1 Groups EFG	★
E6	CAN XP Class I Div 1 Groups BCD; NI Class I Div 2 Groups ABCD; DIP Class II/III Div 1 Groups EFG	★
E7	IECEX Flameproof/Increased Safety with Ex i Core Processor/Sensor (Ex db eb [ia]; Dust (Ex tb)	★
EC	US/CAN Class I Zone 1 (Ex db eb); Class I Zone 2 (Ex ec); Class I Zone 21 (Ex tb)	★

Ordering design

Code	Description	Common Option
Z	Standard product	★

Optional selections

Meter verification

Code	Description	Common Option
MV	SMART™ Meter Verification Professional	★

Advanced diagnostics

Code	Description	Common Option
DS1	Process diagnostics: High Process Noise, Electrode Coating Diagnostic, Smart Fluid Diagnostic	★

Historian

Code	Description	Common Option
HS	Data Historian	★

Short run install

Code	Description	Common Option
SR1	Short Run Install	★

Safety certification

Code	Description	Common Option
SI	Safety certification of 4-20 mA output per IEC 61508	★

Software configuration

Code	Description	Common Option
C1	Custom Configuration (CDS Required)	★

Quality certificate (Q4)

Code	Description	Common Option
Q4	Calibration data per ISO 3.1/EN 10204 3.1	★

Remote cable

Code	Description	Common Option
RC02	4-wire standard cable, 20 ft. (6.1 m)	★
RC03	4-wire standard cable, 30 ft. (9 m)	★
RC04	4-wire standard cable, 40 ft. (12.2 m)	★
RC05	4-wire standard cable, 50 ft. (15.2 m)	★
RC10	4-wire standard cable, 100 ft. (30.5 m)	★
RC15	4-wire standard cable, 150 ft. (45.7 m)	
RC25	4-wire standard cable, 250 ft. (76.2 m)	
RC50	4-wire standard cable, 500 ft. (152.4 m)	
RA01	4-wire armored cable, 10 ft. (3 m)	
RA02	4-wire armored cable, 20 ft. (6.1 m)	
RA03	4-wire armored cable, 30 ft. (9 m)	
RA04	4-wire armored cable, 40 ft. (12.2 m)	
RA05	4-wire armored cable, 50 ft. (15.2 m)	
RA10	4-wire armored cable, 100 ft. (30.5 m)	
RA15	4-wire armored cable, 150 ft. (45.7 m)	
RA25	4-wire armored cable, 250 ft. (76.2 m)	

Witness general

Code	Description	Common Option
WG	Witness general	

QSG language options

Code	Description	Common Option
YF	French	★
YG	German	★
YI	Italian	★
YJ	Japanese	★
YK	Korean	★
YM	Chinese (Mandarin)	★
YP	Portuguese (Brazil)	★
YR	Russian	★
YS	Spanish	★

Transmitter specifications

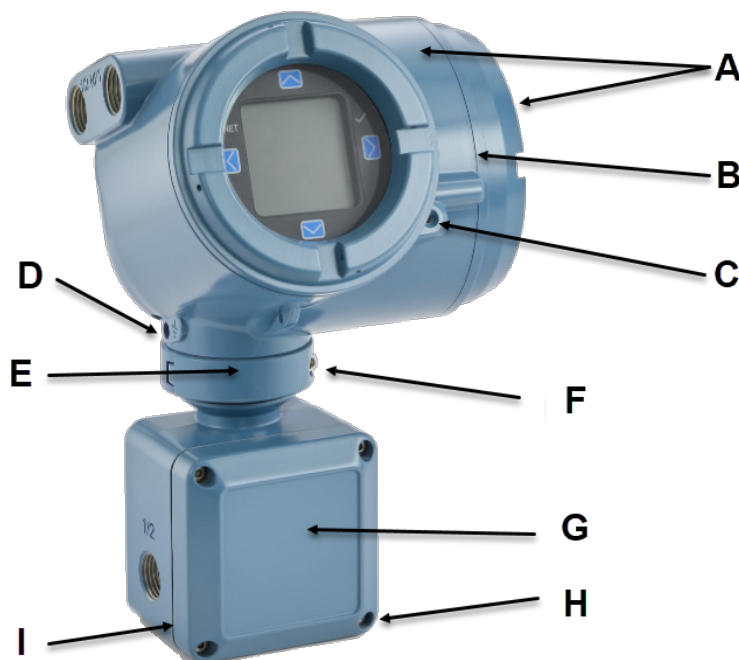
The transmitter contains the electronics, local operator interface (LOI)/display, and connections for power and communication. The transmitter provides power to drive the magnetic coils and receives the flow signal from the sensor.

The following tables outline some of the basic physical, functional, and performance specifications of the 9732 Magnetic Flow Transmitter.

Physical specifications

Transmitter housing

Figure 4-1: Transmitter Physical Specifications



- A. Housing Covers
- B. Housing cover o-rings
- C. Cover lock screws
- D. Safety Ground Assembly
- E. Clamping Ring
- F. Clamp Ring Screw/Hinge Pin
- G. Remote Junction Box (remote mount configuration)
- H. RJB Screws (remote mount configuration)
- I. RJB Gasket (remote mount configuration)

Table 4-1: Transmitter housing

Reference	Materials of construction	Aluminum	SST (Expected availability 2027)
A	Housing/covers	A360, Painted	CF3M, unpainted
	External coating	Polyurethane	Unpainted, std
B	Housing cover o-rings	Buna-N	Nitrile
C	Cover lock screws	316 SST	
D	Safety ground assembly	316 SST	
E	Clamping ring	A360, Painted	CF3M, unpainted
F	Clamp ring screw/hinge pin	316 SST	
G	Remote Junction Box (RJB)	A360, Painted	CF3M, unpainted
H	RJB screws	316 SST	
I	RJB gasket	Buna-N	Nitrile
	Remote Mount "L" bracket	304 SST or 316 SST	316 SST
	Remote cable	Standard (RCxx): Two individually shielded twisted pairs with drain wire Armored (RAXx): Two individually shielded twisted pairs with drain wire armored with stainless steel wire braiding. ¹	
	Enclosure rating	Type 6P; IP 66/67/68/69	
	Conduit entry size	1/2-NPT or M20	
	Conduit plugs material	Aluminum	316 SST
	Weight	Integral Mount : 9.8 lbs Remote Mount with bracket : 10.4 lbs Display/LOI and Cover : 0.5 lbs	Integral Mount : 13.6 lbs Remote Mount with bracket : 22.8 lbs Display/ LOI and Cover : 2.0 lbs
	Dimensions	Refer to Dimensional drawings	
	Housing rotation	Rotate 270° in one direction	
	Display/LOI rotation	Rotation configurable in 90° increments via software.	
	LED status indicators	Left light : Blue, Bluetooth® indicator on/off, Right light : Green/yellow/red, device status	

Functional specifications

Electrical connections

Connection type	Transmitter
Input/Output	- Up to three pairs of wiring terminals for transmitter input/output and digital communications. - Screw terminals accept solid or stranded conductors, 26 AWG (0.1 mm² to 14 AWG (2.1 mm²).
Digital communications administrative connection	- Two clips inside the terminal cover for a temporary connection to HART®/Bell 202 terminals. - Loop resistance is required and must be present in the main input/output (I/O) loop, but not physically on the main terminal block.
Power	Universal (self-switching) with a supply voltage range of:

(1) Cable does not meet definition of armored Type AC as defined by NEC and CEC.

Connection type	Transmitter
	18 Vdc to 100 Vdc 85 Vac (RMS) to 250 Vac (RMS) - one pair of wiring terminals accepts AC or DC power - one internal ground lug for power supply ground wiring Maximum load conditions: 4-wire transmitter: 3.54 W (maximum)
Sensor	4-wire remote mount – four terminals for connection to 4-wire sensor
Reverse Polarity Protection ⁽¹⁾	- universal AC/DC power supply - configurable I/O: Channel A and Channel B
Universal service port (USP)	USP connected to commercially-available USB equipment and cables

(1) Applies only to DC supplies or instances where reversing the leads can cause damage.

Electrical connections

Signal	Channel A		Channel B		Channel C	
Wiring terminals	1	2	3	4	5	6
Analog/digital outputs	Analog output 1 (HART®)		Analog output 2		RS-485	
Frequency outputs	Frequency output 2		Frequency output 1			
Discrete outputs	Discrete output 2		Discrete output 1			
Discrete inputs			Discrete input 1			

- AO/FO/DO/DI can all be configured for either active or passive operation
- Analog Outputs have a linearity of .015% Span, Span=16 mA

Analog output

Channel A and Channel B can be configured for analog output providing 4-20 mA loop current.

Frequency output

Channel A and Channel B can be configured for frequency output 0-10,000 Hz.

Discrete output

Channel A and Channel B can be configured for discrete output. Externally powered at 5 to 28 Vdc, 240 mA maximum, solid state switch closure to indicate the following conditions.

- **Discrete Events (1-5):** Activates switch closure output when the transmitter detects a customer defined discrete event.
- **Zero Flow:** Activates switch closure output when flow goes to 0 ft /sec or below Low Flow Cutoff.
- **Empty Pipe:** Activates switch closure output when an empty pipe condition is detected.
- **Flow Direction:** Activates switch closure output when the desired flow direction is detected (forward/reverse).
- **Diagnostic Status Alert:** Activates switch closure output when the transmitter detects a condition that meets the configured criteria of this output.
- **Fault:** Activates switch closure output when the transmitter detects an electronics fault.
- **Meter Verification Fail:** Activates switch closure output when the transmitter detects a fail condition for meter verification.

Discrete input

Channel B can be configured for Discrete Input. Externally powered at 5 to 28 Vdc, 1.4 to 20 mA to activate switch closure to indicate either:

- **Reset Totalizer (1-7):** Resets selected Totalizer value to zero.
- **Reset All Totals:** Resets all totalizer values to zero.
- **Start/Stop Totalizer (1-7)**
- **Start/Stop Inventory (1-7)**
- **Start/Stop All Totalizers**
- **Start Meter Verification**

Digital communications

- HART/Bell 202
 - Available on Channel A, if licensed.
 - HART/Bell 202 signal is superimposed on the primary milliamp output and is available for the host system interface.
 - Requires 250 to 600 ohms resistance.
 - Uses the latest HART 7 standard.
- Modbus/RS-485
 - Available on Channel C, if licensed.
 - One RS-485 output can be used for direct connection to a Modbus host system.
 - Accepts data rates between 1200 baud and 38.4 kilobaud.
- Modbus® through USP
 - Service port can be used for a temporary connection only.
 - Connects to a personal computer (PC) through USB as if the transmitter had a built-in USB.RS-485 converter.
 - Supports all Modbus data rates.
 - Requires a USB A/male-to-A/male cable.

Sensor compatibility

Compatible with Rosemount 9205 and 8795 sensors.

Flow rate range

Capable of processing signals from fluids with velocities between 0.04 and 39 ft/sec (0.01 to 12 m/sec) for both forward and reverse flow in all sensor sizes. Full scale continuously adjustable between -39 and 39 ft/sec (-12 to 12 m/sec).

Conductivity limits

Process liquid must have a conductivity of 2 microSiemens/cm (2 micromhos/cm) or greater.

Start-up time

10 seconds

Security lockout

Security lockout switch on the electronics board can be set to prevent LOI, HART, or Modbus based communication changing configuration items.

LOI lockout

The display can be manually locked to prevent unintentional configuration changes. When the display lock is activated, a lock symbol appears in the lower right hand corner of the display.

You can also configure display auto lock from the LOI with the following settings:

- **OFF**
- **1 minute**
- **10 minutes**

Sensor compensation

Emerson calibrates Rosemount sensors in a flow lab at the factory and assigns them calibration data. This information must be entered into the transmitter, which enables interchangeability of sensors without calculations or a compromise in standard accuracy.

Environmental limits

Aluminum painted housing

Type	Ambient temperature limits
Operating	-61 to +140 °F (-52 to +60 °C)
Storage	-61 to +185 °F (-52 to +85 °C)

Stainless steel housing

Type	Ambient temperature limits
Operating	-68 to +140 °F (-56 to +60 °C)
Storage	-68 to +185 °F (-56 to +85 °C)

Humidity limits

0 to 95 % relative humidity (RH) to +140 °F (+60 °C)

Altitude limits

AC input voltage	Maximum 250 Vac, up to 6,500 ft. (2000 m)
AC input voltage	Maximum 150 Vac, up to 13,000 ft. (4000 m)
DC input voltage	No altitude limit

Vibration limits

Mounting configuration	Vibration rating (per IEC 61298)
Integral mount	2 g
Remote mount	2 g ¹

⁽¹⁾ 1 g with all safety approvals option codes excluding NH.

Environmental effects

Electromagnetic interference (EMI) effects

- Complies with Electromagnetic Compatibility (EMC) directive 2014/30/EU
- Complies with Low Voltage Directive 2014/35/EU

- These standards include surge and transient testing. The transmitter incorporates internal protection against surge and transient events.

Ambient temperature effect

- On analog outputs: ± 0.0025 percent of span per $^{\circ}\text{C}$ change from the temperature at which the outputs were trimmed.

Environmental compliance

	The battery in the Rosemount 9732 Transmitter cannot be serviced or replaced by users. In compliance with Restriction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE), Emerson provides a service for battery replacement and disposal. The 9732 Transmitter complies with RoHS Directive 2011/65/EU.
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Performance specifications

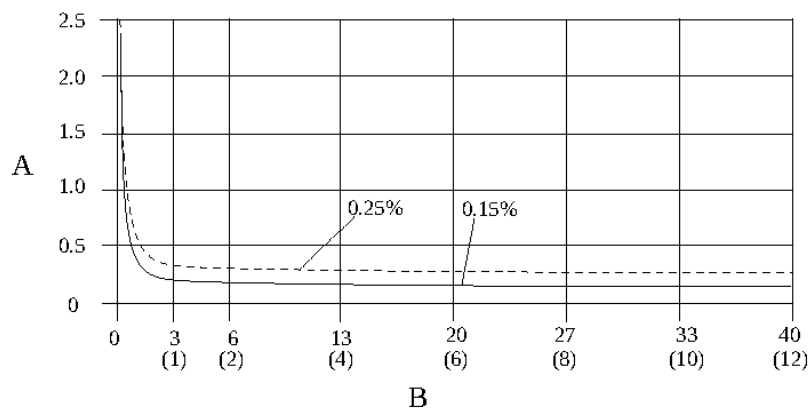
System specifications are given using the frequency output and with the unit at reference conditions.

Accuracy

Includes the combined effects of linearity, hysteresis, and repeatability.

Rosemount 9205 sensor

- Standard system accuracy
 - $\pm 0.25\%$ of rate ± 1.0 mm/s for full range, 0.01-39.37 ft/sec (0.003-12 m/s)
- Optional system accuracy⁽¹⁾
 - $\pm 0.15\%$ of rate ± 1.0 mm/s for full range, 0.01-13 ft/sec (0.003-4 m/s)
 - $\pm 0.18\%$ of rate above 13 ft/s (4 m/s)
- Short Run Install installation effect⁽²⁾
 - Up to $\pm 0.50\%$ of rate



A. Percentage of rate

B. Velocity in ft/s (m/s)

(2) Require Short Run Install option code SR1

Rosemount 8795 sensor

- Standard system accuracy
 - $\pm 0.2\%$ of rate $\pm 2\text{mm/s}$ for 0.01-xx.xx ft/sec (0.003-xx.x m/s)
- Short Run Install installation effect⁽¹⁾
 - Up to $\pm 0.50\%$ of rate

Digital measurement

Type	Value
Repeatability	$\pm 0.1\%$ of reading
Stability	$\pm 0.1\%$ of reading over six months
Ambient Temperature Effect	$\pm 0.15\%$ of reading $\pm 0.005\%$ per $^{\circ}\text{C}$ from 25°C

Warm-up time

5 minutes

Analog output effects

Analog output has the same accuracy as digital measurement plus an additional $\pm 4\text{ }\mu\text{A}$ at room temperature.

Response time

20 milliseconds maximum response time to step change in input

⁽¹⁾ Require Short Run Install option code SR1

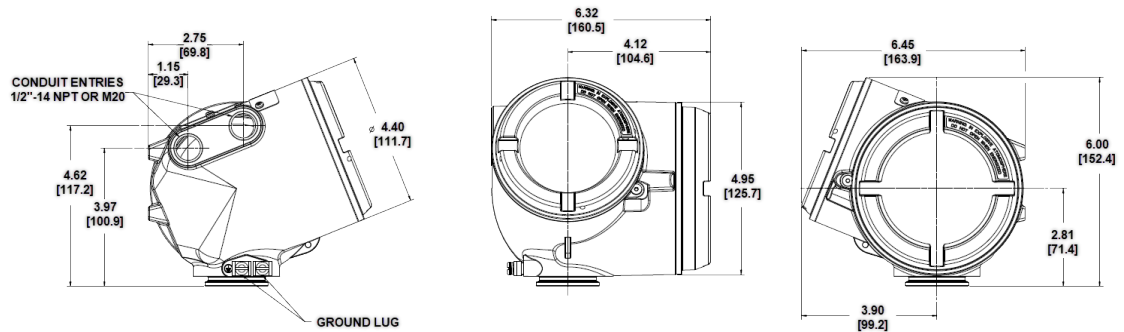
Product certifications

For detailed approval certification information and installation drawings, see the appropriate document:

- Approvals Document: *IECEX and ATEX - Magnetic Flow Meter - Model 9732 and 9205* | Rosemount, Document Number 00825-MA00-0015
- Approvals Document: *Class Division - Magnetic Flow Meter - Model 9732 and 9205* | Rosemount, Document Number 00825-MA00-0016
- Approvals Document: *North American Zone - Magnetic Flow Meter - Model 9732 and 9205* | Rosemount, Document Number 00825-MA00-0017
- Approvals Document: *Magnetic Flow Meter - Model 8795* | Rosemount, Document Number 00825-MA00-0018

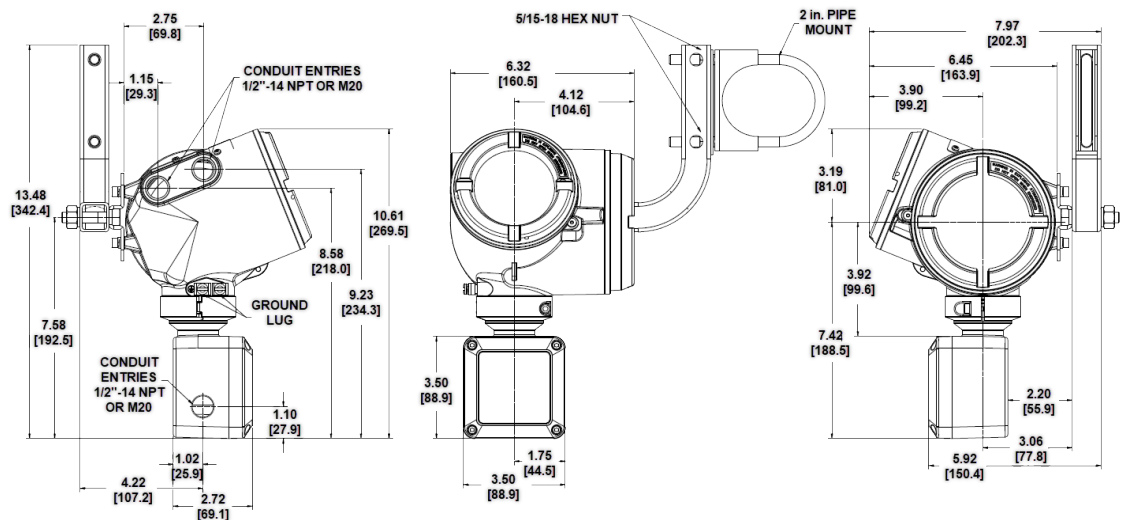
Dimensional Drawings

Figure 6-1: 9732 Transmitter - Aluminum and Stainless Steel Housing for Integral Installation



Dimensions are in inches [mm].

Figure 6-2: 9732 Transmitter - Aluminum and Stainless Steel Housing Remote Installation



Dimensions are in inches [mm].

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