

MICRO MOTION® 9739 TRANSMITTER WITH MVD™ TECHNOLOGY

PROTECTING YOUR INVESTMENT

Upgrading to MVD™ Technology

Do you have installed analog RFT9739 transmitters from Micro Motion? Would you like to get improved performance from your existing flowmeters? You can upgrade your existing flowmeter installations to get improved performance by using multivariable (MVD™) technology.



MVD™ Technology

Upgrade Options for RFT9739 Field Mount Transmitters

Option 1: Micro Motion 9739 Transmitter with MVD Technology

The ideal upgrade choice for increased performance and speed – a fast and easy upgrade that takes just 30 minutes!

Fast, Easy Upgrade

- Identical footprint and same wiring distances as the RFT9739 transmitter simplifies replacement and no need for new mounting brackets
- Seamless migration with the same inputs and outputs
- Retrofit kit uses the existing base and new electronics just drop in – no need to break conduit connections
- Backward compatibility and it will work with any 9-wire Micro Motion Coriolis sensor
- Concentration Measurement and Petroleum Measurement give additional information from the existing flowmeter
- Ideal for wall-mounted applications and is ideally suited for truck-mounted applications



Option 2: Micro Motion Model 1700 or 2700 Transmitters with MVD Technology

Rugged Class I, Division 1 / Zone 1 housing with an optional local operator interface.

Mounting Versatility

- Safety-certified SIS certification
- Class I, Division 1 / Zone 1 local operator interface for configuration and monitoring in the toughest environments
- Concentration Measurement and Petroleum Measurement give additional information from the existing flowmeter
- Effective security capabilities suitable for custody transfer applications



Upgrading Existing Analog RFT9739 Rack Mount Transmitters

Option 1: Micro Motion Model 3500 Transmitters with MVD Technology

Transmitter functionality and PLC capabilities in one instrument with optional extender for easy drop in replacement. Ideal for control-room applications.

Drop-in Replacement

- Wide range of I/O channels allows for maximum functionality
- Advanced density for concentration, petroleum, net volume, water cut, and associated net oil/water flow measurement
- Effective security capabilities suitable for custody transfer applications
- Full configuration from the operator interface eliminates the need for external tools
- Large display provides easy-to-read menus and descriptive alarms



Option 2: Micro Motion Model 1500/2500 Transmitters with MVD Technology

Compact size and easy fit into control room panels ideal for those applications that do not require a display.

Compact Replacement

- Advanced density for concentration, petroleum, net volume, water cut, and associated net oil/water flow measurement
- Compact, small-footprint, remote-mount transmitter using 35 mm DIN rail is easy to install



	Existing Transmitter	Field Mount Transmitters			Control Room Transmitters	
FEATURE	RFT9739	9739MVD	2700 with Configurable Outputs (9-wire) (remote)		3500	2500
Sensor Connectivity						
7-wire Sensor (shipped prior to April 1988)	●	There are no current transmitters that are able to support the 7-wire sensors – if current electronics fail, sensor should be replaced				
9-wire Sensor	● Up to 1000ft (300 m)	● Up to 1000ft (300 m)	● Up to 60ft (20 m)	● Core w/in 60ft (20 m)	● Core w/in 60ft (20 m)	● Core w/in 60ft (20 m)
4-wire Sensor				●	●	●
Inputs/Outputs						
Dual Analog Outputs	●	●	●	●	●	●
Pulse Output	●	●	●	●	●	●
Milliamp Input	●	●				
Modbus	●	●	Ⓛ (Service Port Only)	Ⓛ (Service Port Only)	●	●
Dedicated RS-485	●	●			●	●
HART	●	●	●	●	●	●
Tube frequency output	●	●				
Performance						
Best Entrained Gas Performance				Ⓛ (ELITE w/ Enhanced Core)	Ⓛ (ELITE w/ Enhanced Core)	Ⓛ (ELITE w/ Enhanced Core)
MVD Performance (Improved turndown, entrained gas, flat spec, etc)		●	●	●	●	●
MVD Performance (improved turndown, entrained gas, and flat spec)						
SIL Certified			●	●		
Meter Verification				Ⓛ (Enhanced Core)	Ⓛ (Enhanced Core)	Ⓛ (Enhanced Core)
Truck Mount	Ⓛ Special Option	●	Ⓛ Special Option	Ⓛ Special Option		Ⓛ Special Option
12VDC Power	●	●				
European W&M	●		●	●	●	●
US W&M	●	Pending	●	●	●	●
Peripheral Support						
Density Monitoring System	●	●				
Flow Monitoring System	●	●	●	●	●	●
Digital Rate Totalizer	●	●	●	●	●	●
Net Flow Computer	●	●				
Net Oil Computer	●	●				
Model 3350	●	●	●	●	●	●
Model 3300	●	●	●	●	●	●

● Supported on all models Ⓛ Supported on some models

RFT9739 Field Mount to 9739 MVD Upgrades

A **retrofit kit** can be used if:

- the existing transmitter model number starts with RFT9739D4, RFT9739D5, RFT9739E4, or RFT9739E5.
- the existing transmitter serial number begins with 17, 18, 2 or 7.

A **complete transmitter** is required if:

- the existing transmitter model number starts with RFT9739E1, RFT9739E2 or RFT9739E3.
- the existing transmitter serial number begins with 15.

Migration Services

Please contact your local sales representative to arrange upgrade services in your area. Our local sales team will help you determine the most appropriate upgrade path for your installed based of Micro Motion devices. For a complete list of contacts and web sites, please visit: www.emersonprocess.com/home/contacts/global.

Benefits of MVD Technology vs. Analog Processing

- **Improved Filtering of Noise**

Liquid Applications – turndown improvement of at least 2x

Gas Applications - improved turndown and improved base accuracy

- **Faster Observed Response Time in Noisy Applications**

- **Additional Software Features**

- Concentration Measurement
- Petroleum Measurement



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