



## RHE16

### Compact Multifunction Coriolis Flow Meter Transmitter

#### Features

- Extremely compact footprint – ideal for embedding into small systems and machines
- Mount remotely or in compact form
- Low installation cost
- High accuracy measurement through state-of-the-art signal processing
- Fully featured MODBUS communication with fast update rate
- 4-20 mA output
- Dual pulse outputs up to 10 kHz
- Low power consumption (< 3W)
- DIN rail mounting for easy integration in control cabinets and enclosures
- Front panel LED's give real time measurement status
- RHE16COM PC software for simple configuration, setup, trending, data logging and diagnostics
- Multifunction – mass, volume, density and temperature measurement

#### Applications

Typical applications include:

- Pump control for blending / mixing of liquids
- Fast filling of liquids and gases
- Additive Dosing
- General flow control
- Dispensing

#### Benefits

- USB connection for configuration and maintenance
- Easy access electrical and signal terminals
- Supports multi-drop MODBUS-over-RS485 for multiple unit communication
- Connects and operates with all Rheonik RHM Mass Flow Sensors
- Compact mount version for cost and time effective installation
- Version for installation in ATEX Zone 2 available

## RHE16 General Specifications

<b>Measurements:</b>	Mass flow, volumetric flow, density, temperature
<b>Totalizers:</b>	Forward, reverse, net (mass flow and volumetric flow)
<b>Units:</b>	Configurable in both ANSI and metric units
<b>Enclosure Type:</b>	IP20 / IP66 as compact version
<b>Enclosure Material:</b>	Plastic (PC / PPO)
<b>Electrical Connections:</b>	12 dedicated terminals for mass flow sensor connection (remote mount) 12 terminals for power and I/O
<b>Temperature Limits:</b>	Operating: -20 to 60°C / -4 to 140°F Storage: -40 to 85°C / -40 to 185°F
<b>Max. Humidity:</b>	95% non-condensing
<b>Vibration:</b>	Compliant to: IEC60068-2-6, 60068-2-27, 60068-2-32
<b>Power:</b>	12 to 28 VDC, 3W
<b>Communications:</b>	One mini USB (type B) service port (galvanically isolated) One MODBUS via RS 485 port (fully isolated, 2 wire connection)
<b>Input:</b>	Any Rheonik RHM mass flow sensor
<b>Outputs:</b>	Two user programmable pulse, double pulse, frequency (galvanically isolated) Two user programmable status outputs (galvanically isolated) One user programmable active 4-20 mA
<b>RHECom Software:</b>	Fully featured configuration and diagnostic software package supplied with each RHE16 transmitter. Functions include: configuration, diagnostics, data logging and data trending plus transmitter maintenance functions such as firmware update and tag number storage
<b>Hazardous Area:</b>	ATEX rating Zone 2: Ex II 3 G Ex nA IIC T4 Gc - only as compact version
<b>Weight:</b>	0.19kg / 0.45lb
<b>Packing:</b>	Packing size (H x W x D): 70 x 120 x 95mm / 2.75 x 4.72 x 3.74 inch Total weight incl. packing: 0.23kg / 0.52lb

## Hazardous Area Installation Overview



## RHECom Configuration Software



RHECom is a simple-to-use PC interface used for configuration and diagnostic review purposes. Its intuitive dashboard provides a fast, visual snapshot of instrument condition and performance and shortcut access to main functions. Behind the dashboard is detailed access to the comprehensive set of in-depth configuration and diagnostic functions within the RHE16 designed to provide the utmost in flexibility across the widest possible set of applications. Usability functions such as data logging and data trending are included in RHECom to further enhance the use of the mass flow meter in plant and pilot applications. Connection to the transmitter is via a mini-USB connection direct to PC or through dedicated screw terminals on the transmitter.



## RHE16 Compact Mount



The RHE16 can be supplied preinstalled in a local electrical box mounted on any RHM flow sensor. Neat and convenient, the unit has a tiny footprint and represents installation savings. For high and low temperature applications, the electrical box is set off of the sensor body (only for sensors RHM06 and larger) to protect the transmitter from temperature extremes and to allow for the sensor to be fully insulated. Compact mount versions can be installed in ATEX Zone 2 areas. See RHM sensor data sheets for full dimensions and ordering details.

## Flow Sensor Range



Some of the many RHM mass flow sensors available

### The RHM range of mass flow sensors features

<b>Line sizes</b>	From DN6 to DN300 / ¼" to 12"
<b>Pressure ratings</b>	Up to 1637 bar / 23743 psi
<b>Temperature ratings</b>	From -200°C to 350°C / -328°C to 662°F
<b>Wetted materials</b>	Stainless Steel, Alloy C22, Duplex, Super Duplex, Tantalum, Others

The RHE16 can be connected to all RHM Flow Sensors for a high performance measurement.

For specific details on any size of meter, please see the relevant specification sheet.

## About Rheonik

Rheonik has the single purpose: to design and manufacture the very best Coriolis meters available. Our research and engineering resources are dedicated to finding new and better ways to provide cost effective accurate mass flow solutions. Our manufacturing group care for each and every meter we produce from raw materials all the way to shipping and our service and support group are available to help you specify, integrate, start-up and maintain each and every Rheonik meter you have in service. Whether you

own just one meter or have hundreds, you will never be just another customer to us, you are a valued partner. Need a special configuration for your plant – don't compromise with a "standard" product from elsewhere, if we can't configure it from our regular product range, we can build you what you need as a custom meter.

Rheonik only make Coriolis meters – we are **The Coriolis Experts** – contact us for all of your Coriolis meter requirements.