



RHM 02 Coriolis Mass Flow Meter for Batching/Filling and Accurate Measurement

General Flow Control / Additive Dosing / Mixing and Batching / Chemical Injection / Package and Container Filling







Features

- Typical measuring range up to 2.7 kg/min (5.95 lb/min)
- Pressure ratings up to 1436 bar (20827 psi)
- Temperature ratings from -196 to +210 °C (-320 to +410 °F) extended on request
- Mass flow uncertainty down to 0.05 %
- Repeatability down to 0.05 %
- 4 kHz measurement updates and response time of less than 10 ms when used with RHE 40 Series transmitters
- Accurately measure flow rates down to 10 g/min
- The Rheonik **AnyPipeFit Commitment** provides custom process connection type and size flexibility on any meter to suit your existing plant, saving time and expense on installation costs
- Compact design with minimal pipeline footprint
- Approved for use in hazardous areas
- SS 304 Stainless steel enclosure, SS 316 optional
- Integral and remote transmitter versions available



General Specification Overview

Nominal Flow (Q _{nom})*	1.8 kg/min (1.32 lb/min)			
Maximum Flow (Q _{max})*	2.7 kg/min (2.65 lb/min)			
Typical Minimum Flow (Q _{min})*	0.01 kg/min (0.02 lb/min)			
Serial Tube / Single Path	Flow rates Q_{max},Q_{nom} and Q_{min} for "serial" sensors will be 50% of the above listed parallel/dual path version.			
Operating Temperature	Fluid temperature range options cover from -196 °C to +210 °C (-320 °F to +410 °F) For integral transmitter versions please refer to transmitter datasheet			
Ambient Temperature	-50 °C to +80 °C (-60 °F to +180 °F) (standard), versions available for installation in vacuum chamber (-260 °C / -430 °F) or oven (up to +210 °C / +410 °F) (optional)			
Pressure Ratings	1436 bar (20827 psi) – dependent upon material			
Electrical Connection Sensor w/o Integral Transmitter	M20 x 1.5 standard cable entry for JM, SM terminal box versions Optional entries available : ½" NPT or M25 x 1.5 (only for SM) or ¾" NPT (only for SM) M16 x 1.5 standard cable entry for PM terminal box version Max. cable length to remote RHE transmitter 100 m/330 ft.			
Sensor Enclosure Materials	Stainless steel 304 (standard), SS 316 (optional) Coated aluminum terminal box, SS 316 terminal box (optional)			
Enclosure Type	Protection class IP 66, NEMA 4 (standard), IP 66/67, NEMA 4X (optional)			
Wetted Materials	Flow tubes SS 316 L or SuperDuplex Manifolds SS 316 L, seals FKM, FFKM, FVMQ Standard flanges SS 316 Ti, other connections SS 316 L Additional/customer specific materials available upon request			
Process Connections	Nearly any – the Rheonik AnyPipeFit Commitment . Consult factory for types/sizes not listed in this data sheet on the Mechanical Construction pages			
Pressure Rating Compliance	PED 2014/68/EU Article 4, Section 3 (SEP)			
Certifications and Approvals	ATEX / IECEx Approvals Zone 0, 1, 2 (see page 18) North American Approvals Cl. I, Div. 1, 2, Gr. A,B,C,D, Zone 0, 1, 2 (see page 18) American Bureau of Shipping (ABS)			
Testing and Inspection	All sensors are hydro tested, calibrated and supplied with a traceable calibration certificate. Customized calibration and testing services are available			
Project Documentation and QA, Services	 Rheonik offers a full set of services for large and complex engineering projects. Typical services offered are, but not limited to: Certificates of origin and conformity, mill certificates Data books including WPAR, WQS, NDT, test & quality plans, functional testing, calibration procedures, customized packing, factory acceptance etc. Painting to project specification Start up and commissioning services on/offshore 			
Options	Customization services for machine integration. Consult factory			

* At Qnom pressure drop across a parallel tube sensor will be approximately 2 bar (29 psi) for H20. Sensors can be operated at higher flow rates up to Qmax but pressure drop will be higher. Typical Minimum Flow Qmin is the recommended lowest flow rate for an accurate measurement. Sensors will measure flow rates lower than Qmin but uncertainty will increase beyond 1% of rate.

The flow rate specifications above relate to standard pressure, parallel tube, manifold sensor versions. Models with higher pressure ratings have increased wall thickness and will have higher pressure drops.



Calibration Options

Standard and Premium Calibration

A	0.20 % Uncertainty <i>Requires RHE 20 Series transmitter. All others 0.5 %</i>
В	0.15 % Uncertainty Requires RHE 20 Series transmitter or higher

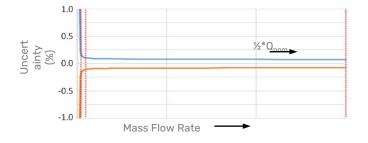
Premium Plus and Ultimate Calibration

G	0.10 % Uncertainty <i>Requires RHE 20 Series transmitter or higher</i>
U	0.05 % Uncertainty Requires RHE 40 Series transmitter

Low Flow and Customized Calibration

1	0.10 % Low Flow Focused Calibration* <i>Requires RHE 40 Series transmitter</i>
Х	Customized Calibration** Consult factory

* Low flow calibration focuses on the range from Q_{nom}/2 downwards to lower flow rates than on other calibrations. Often used for low pressure gas or very viscous liquids ** Customized calibration uses specific calibration points according to customer requirements



Density Calibration / Performance (Liquid)

- S Standard ± 0.001 kg/liter Uncertainty
- D Enhanced ± 0.0005 kg/liter Uncertainty

Uncertainties and flow measurement turn-down

The turn down capability from Qnom of the flow sensor is driven mainly by its zero point stability. At the very low end of the measuring range the uncertainty (u) is dominated by zero point stability. The zero point stability of a standard sensor is: 0.00009 kg/min (0.000198 lbs/min). Zero point stability of a Gold Line sensor is 0.00003 kg/min (0.0000661 lbs/min).

For flow Q \geq ZP stability / (Base Calibration uncertainty/100) \rightarrow u = calibration uncertainty For flow Q < ZP stability / (Base Calibration uncertainty/100) \rightarrow u = (zero stability/Q) * 100

Uncertainties from environmental and process conditions

- If sensors are not zeroed at operating conditions, minor additional uncertainties can arise from elevated temperatures and pressures: ±0.002111% of maximum flow per °C and ±0.00963 % of maximum flow per bar.
- Process temperature effect on density: additional uncertainty of ±0.000156 g/cm³ per °C difference from calibration temperature with standard density calibration and of ±0.000036 g/cm³ per °C difference from calibration temperature with enhanced density calibration. This effect can be mitigated by a simple field density adjustment at operating conditions.
- Process pressure effect on mass flow: The effect of pressure on flow measurement is 0.001% of rate per bar. Compensation is possible by pressure sensor input (analog input or digital write) or manual value entry into the transmitter.
- Process pressure effect on density: The effect of pressure on density measurement is 0.00002 g/cm³ per bar. Compensation is possible by pressure sensor input (analog input or digital write) or manual value entry into the transmitter.

Premium Plus, Ultimate, Low Flow and Enhanced Density Calibration come with Gold Line sensors and are not available in all materials, pressure and temperature ranges.

Reference conditions: 18-24 °C Water @ 1-3 bar; Gas (Natural gas) 35-100 bar.

Flow Measurement Repeatability

Standard Sensors \pm 0.1 % of rate Gold Line Sensors \pm 0.05 % of rate

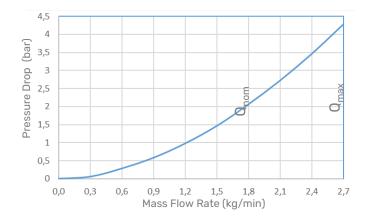
Temperature Measurement

Better than ± 1 °C



Pressure Drop

Every Coriolis flow sensor generates pressure drop across its inlet and outlet when in use. The amount of pressure drop generated is mainly a function of the flow velocity within its tubes and the flowing viscosity of the stream.



0 – 2.7 kg/min water, sensor with P1 pressure rating. Higher viscosities create higher pressure drop

Measurement Tube Materials and Pressure Ratings

The maximum pressure (p_{max}) of a sensor is determined by its lowest rated part. The lowest rated part can be either the measurement tube $(p_{max}$ see table to the right), the connection block/manifold $(p_{max}$ indicated in the mechanical construction section) or the process connection (for p_{max} see published standards or manufacturer information).

Material	Pressure Code	50°C / 122°F	120°C / 248°F	210°C / 410°F			
SS 316L (standard)	P1	314 4554	279 4047	236 3423			
SuperDuplex*	P2	728 10559	677 9819	608 8818			
SuperDuplex*	Р3	950 13779	900 13053	840 12183			
SuperDuplex* P4 1436 20827 1337 19392 1199 17390							
* Note minimum operating temperature for Units: bar / psi SuperDuplex stainless steel is -40 °C							

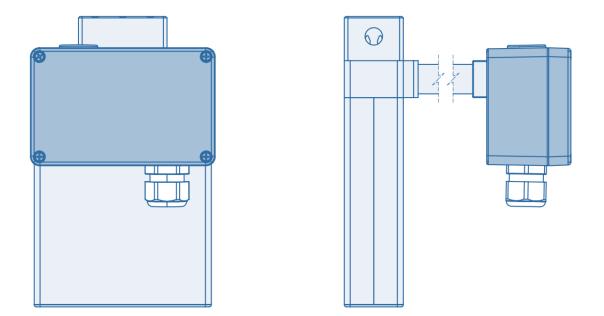
Other Materials

Other wetted materials may be possible for chemical compatibility, lower pressure drop, abrasion allowance, other application specific requirements. Rheonik can provide nearly any material for the wetted parts. *Contact factory with specification for assessment and availability.*



Mechanical Construction

Sensors are manufactured with two internal measurement tubes arranged side by side. In parallel or dual path sensors (order code P*xx*), these tubes are connected in parallel and the flowing fluid is split equally between them. In serial or single path sensors (order code S*xx*), the internal tubes are connected end to end, creating a single path through which all fluid flows. Manifold designs have a removable inlet/outlet manifold block and utilize selectable seals between the manifold and sensor body. In sealless designs, the measurement tubes are continuous between the process connections and do not have seals. Manifold designs offer shorter delivery lead times and may have a lower pressure drop than sealless designs for the same flow rate.



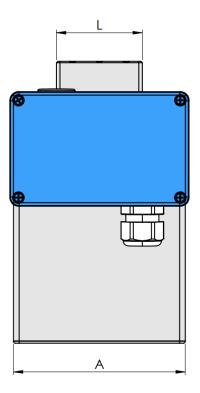
Note

All dimensions are for standard products. For customization of face to face length and/or process connection types other than the ones listed on this page, please consult factory. Note that larger diameter flange process connections are always possible.



Manifold design with thread connections

PM0/PH0: parallel tube / dual path



	Ā	ł		9	
HI	H2	H3			
_			В	}	

Process Connection PM0 / PH0	Dim. L mm / in	Order Code
Female Thread G ¼" (only PM0)	60 / 2.36	G1
Female Thread ¼" NPT (only PMO)	60 / 2.36	N1
Autoclave ¾" MP – ½, – 18 UNF Female Thread (only PHO)	70 / 2.76	P1

Manifold Pressure Ratings @ 120 °C / 248 °F	
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PM0 – 700 bar / 10150 psi PH0 – 1220 bar / 17695 psi (20000 psi @ 50 °C / 122 °F)

PMO / PHO Dimensions	mm / in
А	120 / 4.72
В	40 / 1.57
H1 (PM0, PH0)	197 / 7.76
H2	184 / 7.24
H3	167 / 6.57
W	see page 13

Material of Manifold Seals (Wetted Part)

Depending upon sensor temperature range, sensors are supplied with the following seal types as standard. For alternative seal options (e.g. FFKM seals for N1) please see Options. Other seals on request.

Weights and Shipping Dimensions

- Weight for sensor with threads: ~3 kg/6.6 lb
- Shipping carton size ~60 x 41 x 32 cm (24 x 16 x 13 in)
- Gross weight with RHE 28, packaging ~9 kg/19.8 lb

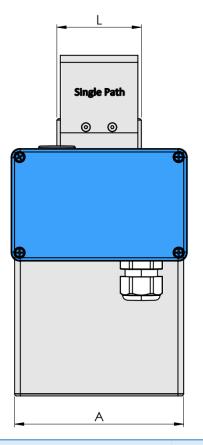
Temperature Range	PM0	SM0	PH0	SH0
N1	FKM	FKM	FKM	FKM
NA	FVMQ	FVMQ	FVMQ	FVMQ
E2*	FFKM	FFKM	n/a	n/a

*FFKM seals minimum temperature is -20 °C/-4 °F



Manifold design with thread connections

SM0/SH0: serial tube / single path



Ŧ	H2	H3			
			_	B -	4

Process Connection SM0 / SH0	Dim. L mm / in	Order Code
Female Thread G ¼" (only SM0)	60 / 2.36	G1
Female Thread ¼" NPT (only SMO)	60 / 2.36	N1
Autoclave ⅔" MP - ⅔" - 18 UNF Female Thread (only SH0)	70 / 2.76	P1

Manifold Pressure Ratings @ 120 °C / 248 °F SMO – 700 bar / 10150 psi

SM0 – 700 bar / 10150 psi SH0 – 1220 bar / 17695 psi (20000 psi @ 50 °C / 122 °F)

SMO / SHO Dimensions	mm / in	
А	120 / 4.72	
В	40 / 1.57	
H1 (SM0, SH0)	242 / 9.53	
H2	184 / 7.24	
НЗ	167 / 6.57	
W	see page 13	

Material of Manifold Seals (Wetted Part)

Depending upon sensor temperature range, sensors are supplied with the following seal types as standard. For alternative seal options (e.g. FFKM seals for N1) please see Options. Other seals on request.

Temperature Range	PM0	SM0	PH0	SH0
N1	FKM	FKM	FKM	FKM
NA	FVMQ	FVMQ	FVMQ	FVMQ
E2*	FFKM	FFKM	n/a	n/a

*FFKM seals minimum temperature is -20 °C/-4 °F

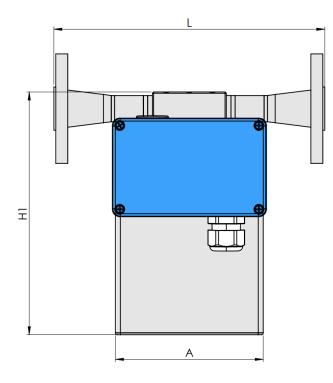
Weights and Shipping Dimensions

- Weight for sensor with threads: ~3 kg/6.6 lb
- Shipping carton size
 ~60 x 41 x 32 cm (24 x 16 x 13 in)
- Gross weight with RHE 28, packaging ~9 kg/19.8 lb



Manifold design with flange connections

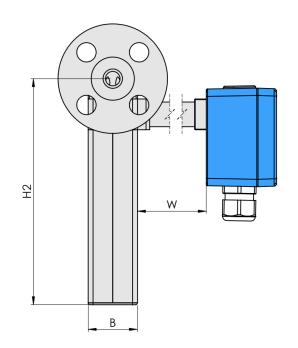
PMO: parallel tube / dual path



Process Connection PM0	Dim. L mm / in	Order Code
Flange ANSI ½" 150#RF	220 / 8.66	A1
Flange ANSI ½" 300#RF	220 / 8.66	A2
Flange ANSI ½" 600#RF	220 / 8.66	A3
Flange ANSI ½" 1500#RF	300 / 11.81	A4
Flange ANSI ½" 1500#RTJ	300 / 11.81	R1
Flange DIN DN15/PN40	220 / 8.66	D1
Flange DIN DN15/PN100	220 / 8.66	D2
Flange DIN DN15/PN160	220 / 8.66	D3
Flange JIS B 2220 RF 10k 15A	220 / 8.66	J1
Flange JIS B 2220 RF 20k 15A	220 / 8.66	J2

Weights and Shipping Dimensions

- Weight for sensor with ½" 150# flanges: ~4 kg/8.8 lb
- Shipping carton size ~60 x 41 x 32 cm (24 x 16 x 13 in)
- Gross weight with RHE 28, packaging ~10 kg/22 lb



PM0 Dimensions	mm / in	
А	120 / 4.72	
В	40 / 1.57	
H1 (PM0)	197 / 7.76	
H2	184 / 7.24	
НЗ	167 / 6.57	
W	see page 13	

Material of Manifold Seals (Wetted Part)

Depending upon sensor temperature range, sensors are supplied with the following seal types as standard. For alternative seal options (e.g. FFKM seals for N1) please see Options. Other seals on request.

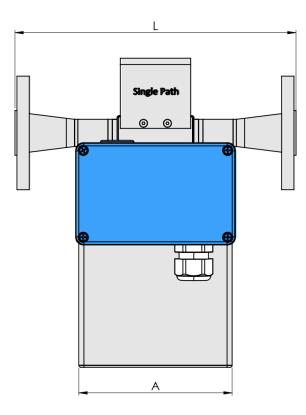
Temperature Range	_M0	
N1	FKM	
NA	FVMQ	
E2	FFKM*	

*FFKM seals minimum temperature is -20 °C/-4 °F



Manifold design with flange connections

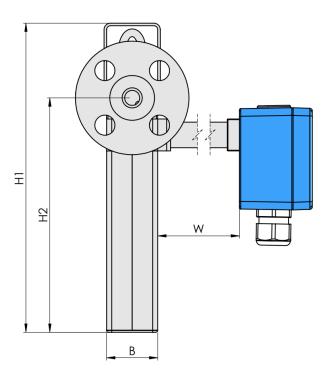
SMO: serial tube / single path



Process Connection SM0	Dim. L mm / in	Order Code
Flange ANSI ½" 150#RF	220 / 8.66	A1
Flange ANSI ½" 300#RF	220 / 8.66	A2
Flange ANSI ½" 600#RF	220 / 8.66	A3
Flange ANSI ½" 1500#RF	300 / 11.81	A4
Flange ANSI ½" 1500#RTJ	300 / 11.81	R1
Flange DIN DN15/PN40	220 / 8.66	D1
Flange DIN DN15/PN100	220 / 8.66	D2
Flange DIN DN15/PN160	220 / 8.66	D3
Flange JIS B 2220 RF 10k 15A	220 / 8.66	J1
Flange JIS B 2220 RF 20k 15A	220 / 8.66	J2

Weights and Shipping Dimensions

- Weight for sensor with ½" 150# flanges: ~4 kg/8.8 lb
- Shipping carton size ~60 x 41 x 32 cm (24 x 16 x 13 in)
- Gross weight with RHE 28, packaging ~10 kg/22 lb



SM0 Dimensions	mm / in	
А	120 / 4.72	
В	40 / 1.57	
H1 (SM0)	242 / 9.53	
H2	184 / 7.24	
НЗ	167 / 6.57	
W	see page 13	

Material of Manifold Seals (Wetted Part)

Depending upon sensor temperature range, sensors are supplied with the following seal types as standard. For alternative seal options (e.g. FFKM seals for N1) please see Options. Other seals on request.

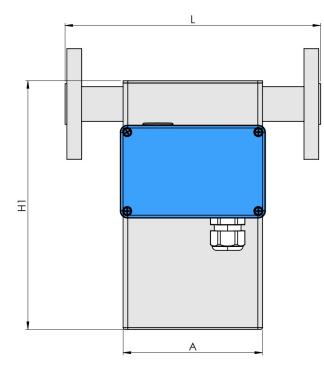
Temperature Range	MO	
N1	FKM	
NA	FVMQ	
E2	FFKM*	

*FFKM seals minimum temperature is -20 °C/-4 °F



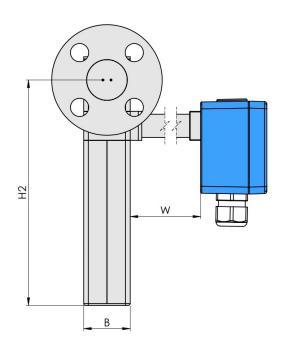
Sealless design with flange/hub connections

PF0: parallel / dual path



Process Connection PF0	Dim. L mm / in	Order Code
Flange ANSI ½" 150#RF	220 / 8.66	A1
Flange ANSI ½" 300#RF	220 / 8.66	A2
Flange ANSI ½" 600#RF	220 / 8.66	A3
Flange ANSI ½" 1500#RF	300 / 11.81	A4
Flange ANSI ½" 2500#RF	300 / 11.81	A5
Flange ANSI ½" 1500#RTJ	300 / 11.81	R1
Flange ANSI ½" 2500#RTJ	300 / 11.81	R2
Flange DIN DN15/PN40 Form B1	220 / 8.66	D1
Flange DIN DN15/PN100 Form B2	220 / 8.66	D2
Flange DIN DN15/PN160 Form B2	220 / 8.66	D3
Flange JIS B 2220 RF 10k 15A	220 / 8.66	J1
Flange JIS B 2220 RF 20k 15A	220 / 8.66	J2
Grayloc® Hub 1" GR4	300 / 11.81	H1

For other hub connections (e.g. Destec, Galperti, Techlok) please consult factory



PF0 Dimensions	mm	in
А	120	4.72
В	40	1.57
H1	214	8.43
H2	194	7.64
НЗ	167	6.57
W	see pa	age 13

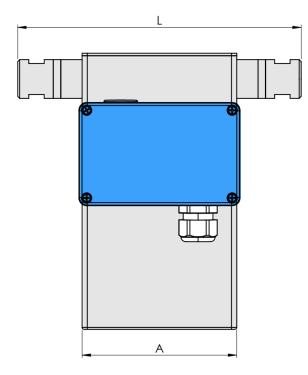
Weights and Shipping Dimensions

- Weight for sensor with ½" 150# flanges: 3.5 kg/7.7 lb
- Shipping carton size ~60 x 41 x 32 cm (24 x 16 x 13 in)
- Gross weight with RHE 28, packaging ~9.5 kg/20.9 lb

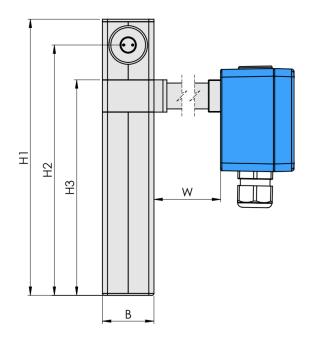


Sealless design with threaded connections

PFT: parallel / dual path



Process Connection PFT	Dim. L mm / in	Order Code
Female Thread G ¼"	220 / 8.66	G1
Female Thread ¼" NPT	220 / 8.66	N1
Autoclave ¾" MP – ⅔" – 18 UNF Female Thread	220 / 8.66	P1
Swagelok® ¼" Tube Inlet male (SS-400-1-4W)	220 / 8.66	W1
Swagelok® ¼" O-Ring Connection male (SS-4-VCO-1)	Consult Factory	V1
Swagelok® ¼" O-Ring Connection female (SS-4-VCO-3 and -4)	Consult Factory	V2
Swagelok® ¼" with Metal Gasket female (SS-4-VCR-1 and -3)	Consult Factory	V3



PFT Dimensions	mm	in
А	120	4.72
В	40	1.57
H1	214	8.43
H2	194	7.64
H3	167	6.57
W	see page 13	

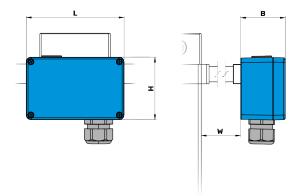
Weights and Shipping Dimensions

- Weight for sensor with threads: ~3 kg/6.6 lb
- Shipping carton size
 ~60 x 41 x 32 cm (24 x 16 x 13 in)
- Gross weight with RHE 28, packaging ~9 kg/19.8 lb

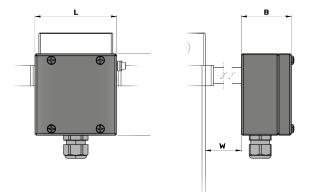


Electrical Connection Options for remote RHE20, RHE40 Transmitters

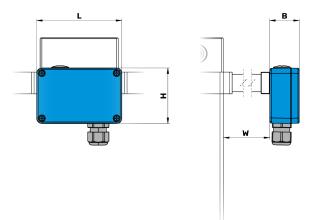
JM Standard Terminal Box Coated Aluminum



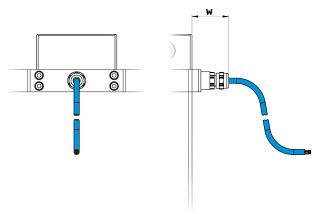
SM Terminal Box and Entire Enclosure Stainless Steel 316



PM Extra Compact Terminal Box Coated Aluminum



TM Integral PTFE Cable Instead of Terminal Box Standard Length 2 m. Can be extended up to max 10 m



Electrical Connection Dimensions	mm	in
J5, JM Standard Box (L x H x B)	125 x 80 x 57	4.92 x 3.15 x 2.24
PM Compact Box (L x H x B)	98 x 64 x 34	3.86 x 2.52 x 1.34
SM SS316 Box (L x H x B)	100 x 100 x 61	3.94 × 3.94 × 2.40
TM Integral PTFE Cable (W)	41	1.61
Temperature Range N1, NA (W)	2	0.08
Temperature Range E2, E3, H4 (W)	100	3.94

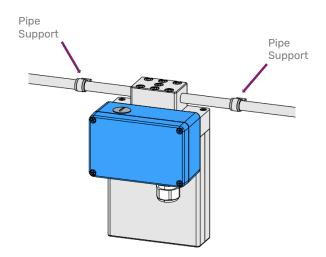
JM, SM Terminal boxes are supplied with an M20 x 1.5 cable entry, optional entries are available PM Compact Terminal boxes are supplied with an M16 x 1.5 cable entry

For integral transmitter version J5 please refer to RHE45 datasheet

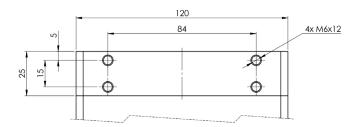


Mounting Schemes

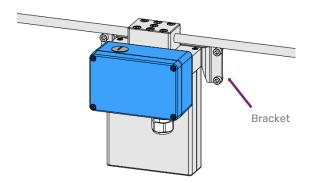
Standard/Usual Installation Without Mounting Brackets

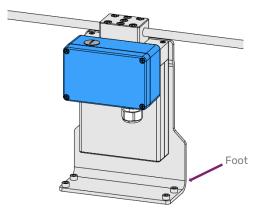


Thread dimensions base plate PMO (backside of the sensor)

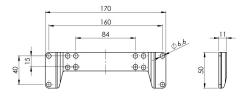


Mounting Aids for special Installation requirements

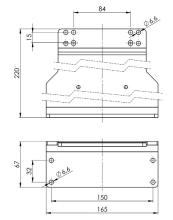




Type M - Wall Mount



Type MF - Floor Mount





Transmitter Range

Any Rheonik Mass Flow Transmitter model can be combined with any Rheonik Mass Flow Sensor to provide an overall mass flow measurement system to suit any requirement. Rheonik Coriolis Transmitters are available in versions specifically designed for process, industrial and OEM applications. Economical blind front versions of some transmitters are available where displays and keypads are not required. The wide range of sensors and transmitters provide tremendous options for system designers and end users alike.



Specifications and features subject to changes without notice. Version no: 1.1 | JUL 22 | Page 15/19



RHM 02 Part Number Code

Temp	berature Range		
N1	NT from -20 to +120 °C (-4 to +248 °F)		
NA	ET from -50 to +120 °C (-58 to +248 °F)		
E2	ET2 from -50 to +210 °C (-58 to +410 °F)		
E3	ET1 from -196 to +50 °C (-320 to +122 °F) - only sealless		
	Pressure Code for p _{max} of Measuring Loops		
	See pressure ratings page for ratings and codes		
	Construction Type - p _{max} indications refer to 120°C / 248°F		
	PM0 Parallel block/manifold in SS316L with seals, $p_{max} = 700$ bar		
	SM0 Serial block/manifold in SS316L with seals, p_{max} = 700 bar		
	PHO Parallel block/manifold in SS316L with seals, p _{max} = 1220 bar (20000 psi @ 50°C / 122°F) - only Autoclave		
	SH0 Serial block/manifold in SS316L with seals, p _{max} = 1220 bar (20000 psi @ 50°C / 122°F) - only Autoclave		
	PFO Parallel tube, sealless - only with flange and hub connections		
	PFT Parallel tube, sealless - only with thread connections		
	Material of Measuring Loops		
	35 SS316L / EN 1.4435 / UNS S31603		
	10 SuperDuplex / EN 1.4410 / UNS S32750		
	Process Connection		
	See mechanical construction pages for available connections and codes		
	Electrical Connection to Transmitter		
	JM Terminal Box coated Aluminum - M20 x 1.5 cable entry, see Accessories for others - not with Haz. Area A0 J5 Alu Box ready for integrated RHE45 - temperature restrictions apply - only Haz. Area NN		
	PM Extra compact Terminal Box coated Aluminium - M16 x 1.5 cable entry - not with Haz. Area A0, No Option T1		
	SM Terminal Box and entire Enclosure/Housing in SS316, M20 x 1.5 cable entry, see Accessories for others		
	TM Integral PTFE cable to RHE, 2m - not with H4 Temp., Haz. Area A0. C0 only with N1, NA		
	Options Codes		
	See options listing for specific codes (next page)		
	Hazardous Area Certifications (details see page 18)		
	NN Without Ex Approval		
	A2 ATEX/IECEx Approvals Zone 2		
	A1 ATEX/IECEx Approvals Zone 1 - requires suitably rated RHE		
	A0 ATEX/IECEx Approvals Zone 0 - requires Elec. Conn. SM, suitably rated RHE		
	C2 CSA Approval US-Canada Class I, Zone 2, Gas IIC		
	C0 CSA Approval US-Canada Class I, Div. 1 / Zone 0, Gas IIC - requires suitably rated RHE		
	Pressure Design Compliance		
	NN Rheonik standard design based on EN codes (no PED - not for sales into EU)		
	SE PED compliance according to SEP - Sound Engineering Practice		
	Performance Certification		
	NN No Perfomance Certification		
	AB ABS Approval for marine applications - includes Approval for RHE Transmitter		
	Mass Flow, Density Calibration Selection		
	See performance page for code options		
	Manufacturing Instruction Codes See instructions listing for specific codes (next page)		
\downarrow			
M02S			



Options and Manufacturing Instruction Codes

Options Codes		
NN	Without Option	
T1 Terminal box with cable entry upwards/gas installation		
ТО	Set-off terminal box for N1, NA Temperature Range (included in E2, E3, H4)	
FO	FVMQ Seals for manifolds instead of standard seals / recommended for frequent use < 0 $^\circ$ C	
FK	FFKM* Seals for manifolds instead of standard seals / high chemical resistance	
P2	1/2" NPT Purge	
RD	Enclosure with integrated rupture disk	
PD	½" NPT Purge with integrated Rupture Disk (2 bar/29psi)	

*FFKM seals minimum temperature is -20°C / -4°F

Instructions		
Ν	No manufacturing instructions	
F	F Removal of rest water from calibration with compressed air	
7	Upgrade to dual rating IP66/67 - only with electrical connection SM	
0 Special Cleaning, water and fat free		
S	Sea-worthy packing	

Additional separate choices

Options	Order Code ORHM
E1	Terminal box prepared for female thread ½" NPT cable entry
E2	Terminal box prepared for female thread M25 x 1.5 cable entry (only with Electrical Connection SM)
E3	Terminal box prepared for female thread¾" NPT cable entry (only with Electrical Connection SM)
TP	Separate TAG Plate in Stainless Steel (TAG Information only)
TP-C	Type Label in Stainless Steel (TAG and all other label information)

Standard cable entry on JM, SM terminal box is M20 x 1.5. Cable entry on PM terminal box is always M16 x 1.5

Accessories	Order Code ARHM
M Wall mounting bracket - recommended for sensitive, low flow installations	
MF	Floor mounting bracket



Hazardous Area Certifications

Code	Zone / Division	Approval	Labeling
A0	Zone 0	ATEX	II 1G Ex ia IIC T6T1 Ga
A1	Zone 1	ATEX	II 2G Ex ib IIC T6T1 Gb
AB	Zone 0	ATEX	II 1G Ex ia IIB T6T1 Ga
AB	Zone 1	ATEX	II 2G Ex ib IIB T6T1 Gb
A2	Zone 2	ATEX	II 3G Ex ec IIC T6T1 Gc
A0	Zone 0	IECEx	Ex ia IIC T6T1 Ga
A1	Zone 1	IECEx	Ex ib IIC T6T1 Gb
A2	Zone 2	IECEx	Ex ec IIC T6T1 Gc
CO	Div 1, Zone 0	Zone USA/Kanada	Class I, Div 1, Groups A, B, C and D T6T1; Class I, Zone 0, AEx ia IIC T6T1 Ga
СВ	Div 1, Zone 0	Zone USA/Kanada	Class I, Div 1, Groups C and D T6T1; Class I, Zone 0, AEx ia IIB T6T1 Ga
C2	Zone 2	Zone USA/Kanada	Class I, Zone 2, AEx nA IIC T6T1 Gc



About Rheonik

Rheonik has but one 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 that provide value to our customers. 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 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 our valued business partner.

Need a specific configuration for your plant? Don't compromise with a "standard" product from elsewhere that will add extra cost to your installation. If we can't configure it from our extensive and versatile product range, our exclusive **AnyPipeFit Commitment** can have your flow sensor customized with any size/type of process connection and face to face dimension you need.

No matter what control system you use as the backbone in your enterprise, with our **AnyInterface Commitment**, you can be sure that connection and communication will not be a problem. Alongside a wide variety of discrete analog and digital signal connections, we can also provide just about any network/bus interface available (for example: HART, ProfibusDP, ProfiNet, EtherCAT, PowerLink, EtherNet/IP, CAN,) with our RHE 40 Series family of transmitters. Rheonik RHE 40 Series transmitters can connect to your system – no headache and no conversion needed.

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