RHEONIK.



RHM 10

Coriolis Mass Flow Meter for Batching/Filling and Accurate Measurement

General Flow Control / Additive Dosing / Mixing and Batching / Chemical Injection / Package and Container Filling / Hydrogen Dispensers for Trucks, Trains & Buses







Features

- Typical measuring range up to 90 kg/min (198.42 lb/min)
- Pressure ratings up to 1379 bar (20000 psi)
- Temperature ratings from -196 to +350°C (-320 to +662°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 250 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 316L optional
- Integral and remote transmitter versions available



General Specification Overview

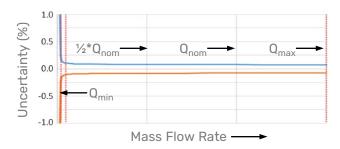
Nominal Flow (Q _{mam})* 60 kg/min (198 lb/min) Maximum Flow (Q _{mam})* 90 kg/min (198 lb/min) Typical Minimum Flow (Q _{min})* 0.25 kg/min (0.55 lb/min) Serial Tube / Single Path Flow rates Q _{max} , Q _{ne} and Q _{min} for "serial" sensors will be 50 % of the above listed parallel/dual path version. Operating Temperature Fluid temperature range options cover from ~196 °C to ~4550 °C (~320 °F to +662 °F) For integral transmitter versions please refer to transmitter datasheet Ambient Temperature 55° C to +80° C (~60 °F) E to +180 °F). High temperature version for oven installation up to +210 °C (+410 °F) available Pressure Ratings Up to 1379 bar / 20000 psi - dependent upon material Electrical Connection Sensor w/o Integral Transmitter Vax 1.5 standard cable entry for JM, SM terminal box versions of Max. cable length to remote RHE transmitter 100 m/330 ft Sensor Enclosure Materials Stainless steel 304 (standard). SS 316L (optional) coptional) Enclosure Type Protection class IPA6 (IPA6 is mostly equivalent to NEMA 4X) optionally IPA6-IPA7 (IPA7 declared by manufacturer, IPA7 is mostly equivalent to NEMA 4X) and iffolds SS 316L. seals FKM, FKKM, FYMO, EPDM standard flanges SS 316L, seals FKM, FKKM, FYMO, EPDM standard flanges SS 316L seals FKM, FKKM, FYMO, EPDM standard flanges SS 316L seals FKM, FKKM, FYMO, EPDM standard flanges SS 316L seals FKM, FKKM, FYMO, EPDM standard flanges SS 316L seals FKM, FKKM, FKKM, FYMO, EPDM standard flanges SS 316L seals FKM, FKKM, FKKM, FKM, EPDM standard flanges SS 316L seals FKM,			
Typical Minimum Flow (Q _{man})* 0.25 kg/min (0.55 lb/min)	Nominal Flow (Q _{nom})*	60 kg/min (132 lb/min)	
Flow rates Q _{max} , Q _{nom} and Q _{min} for "serial" sensors will be 50 % of the above listed parallel/dual path version. Pluid temperature Flow integral transmitter options cover from -196 °C to +350 °C (-320 °F to +662 °F) For integral transmitter versions please refer to transmitter datasheet	Maximum Flow (Q _{max})*	90 kg/min (198 lb/min)	
parallel/dual path version. Protection class Protection class Protection class Protection class Prof. Protection class Prof.	Typical Minimum Flow (Q _{min})*	0.25 kg/min (0.55 lb/min)	
Ambient Temperature Ambient Temperature -50 °C to +80 °C (-60 °F to +180 °F). High temperature version for oven installation up to +210 °C (+410 °F) available Pressure Ratings Up to 1379 bar / 20000 psi – dependent upon material 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 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 316L (optional) Coated aluminum terminal box. SS 316L terminal box (optional) Protection class IP66 (IP66 is mostly equivalent to NEMA 4X) Optionally IP66-IP67 (IP67 declared by manufacturer, IP67 is mostly equivalent to NEMA 6) Flow tubes SS 316L, SuperDuplex, Sandvik HP160® or Alloy C22 Manifolds SS 316L, seals FKM, FFKM, FFVMQ, EPDM Standard flanges SS 316T, other connections SS 316L Additional/customer specific materials available upon request Process Connections Process Connections Pressure Rating Compliance PED 2014/68/EU Article 4, Section 3 (SEP) ATEX / IECEx Approvals Zone 0, 1, 2 (see page 20) North American Approvals C1. Div. 1, 2, 6r. A, B, C, D, Zone 0, 1, 2 OlML, MID custody transfer approval American Bureau of Shipping (ABS) DNV approval for marine applications All sensors are hydro tested, calibrated and supplied with a traceable calibration certificate. Customized calibration and testing services are available 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 WFS-WPGR, WPQ, NDT, test & quality plans, functional testing, calibration procedures, customized packing, factory acceptance etc. Painting to project specification Start up	Serial Tube / Single Path		
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Options Customization services for machine integration. Consult factory		 Typical services offered are, but not limited to: Certificates of origin and conformity, mill certificates Data books including WPS-WPQR, WPQ, NDT, test & quality plans, functional testing, calibration procedures, customized packing, factory acceptance etc. Painting to project specification 	
	Options	Customization services for machine integration. Consult factory	

^{*} At Q_{nom} pressure drop across a parallel tube sensor will be approximately 2.2 bar (32 psi) for H₂0. Sensors can be operated at higher flow rates up to Q_{max} but pressure drop will be higher. Typical Minimum Flow Q_{min} is the recommended lowest flow rate for an accurate measurement. Sensors will measure flow rates lower than Q_{min} 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



Order Code	General Accuracy Calibration		
Α	Standard - 0.20 % Uncertainty		
В	Premium - 0.15 % Uncertainty		

Order Code	High Accuracy Calibration	
G	Premium Plus - 0.10 % Uncertainty	
U	Ultimate - 0.05 % Uncertainty Requires RHE 40 Series transmitter	

Order Code	Focused Calibration		
1	0.10 % Low Flow Calibration* Requires RHE 40 Series transmitter		
X	Customized Calibration** Consult factory		

^{*} Low flow calibration focuses on the range from ½*Q_{nom} downwards to lower flow rates than on other calibrations. Often used for low pressure gas or very viscous liquids

Reference conditions:

18-24°C Water @ 1-3 bar

Uncertainties and flow measurement turn-down

The turn down capability from Q_{nom} 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.

- Zero point stability of a standard sensor with General Accuracy Calibration is: : 0.00246 kg/min (0.00542 lbs/min)
- Zero point stability of a Gold Line sensor with High Accuracy or Focused Calibration is 0.0012 kg/min (0.00265 lbs/min).
- For flow Q ≥ ZP stability / (Base Calibration uncertainty/100) → u = calibration uncertainty
- For flow Q < ZP stability / (Base Calibration uncertainty/100) → 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:

- ±0.000556 % of maximum flow per °C
- ±0.000333 % of maximum flow per bar.

Process temperature effect on density:

- Additional uncertainty of ±0.000122 g/cm³ per °C difference from calibration temperature with standard density calibration
- Additional uncertainty 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 0.0001 % 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 0.000075 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 are only available in SS316 material, P1 lower pressure and N1 temperature range.

Applying Premium Plus calibration to higher pressure, special materials and/or non-standard temperature models will show higher zero uncertainties (up to 3 times higher than standard sensor).

Order Code	Density Calibration / Performance (Liquid)
Ν	No Density Calibration
S	Standard ± 0.001 kg/l Uncertainty
D	Enhanced ± 0.0005 kg/l Uncertainty Requires High Accuracy or Focused Calibration Option

Flow Measurement Repeatability

Standard Sensors ± 0.1% of rate Gold Line Sensors ± 0.05% of rate

Temperature Measurement

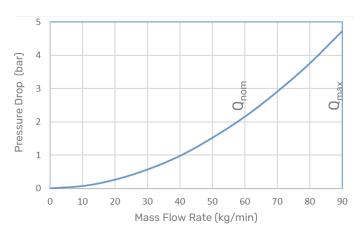
Better than ± 1°C

^{**} Customized calibration uses specific calibration points according to customer requirements



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 - 90 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).

Note:

The material of the connection block/manifold is always SS 316L.

The material of the process connection of sealless sensor versions is usually the same as the measurement loops, however, could be different in special cases on PFT.

Order Code	Material	50°C / 122°F	120°C / 248°F	210°C / 410°F	350°C / 662°F
P1	SS 316L (standard)	208 3017	185 2683	156 2263	133 1929
P1	Alloy C22	341 4945	303 4394	258 3741	214 3103
P2	SuperDuplex*	481 6976	448 6498	402 5831	N/A
P2	Sandvik HP160®	600 8702	540 7832	490 7107	N/A
Р3	SuperDuplex*	753 10921	701 10167	629 9123	N/A
Р3	Sandvik HP160®	1010 14649	970 14069	650 9472	N/A
P4	SuperDuplex*	1379 20000	1289 18695	1156 16766	N/A

^{*} Note minimum operating temperature for SuperDuplex stainless steel is -40 °C

Units: bar / psi

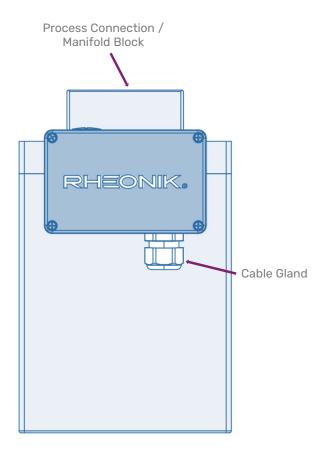
Other Materials

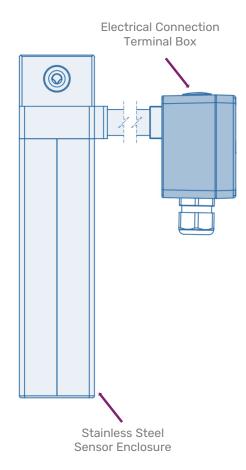
Other wetted materials may be possible for chemical compatibility, lower pressure drop, abrasion allowance, other application specific requirements. Rheonik can provide nearly any material for the wetted parts. Contact factory with specification for assessment and availability.



Mechanical Construction

Sensors are manufactured with two internal measurement tubes arranged side by side. In parallel or dual measurement path sensors (order code Pxx), these tubes are connected in parallel, and the flowing fluid is split equally between them. In serial or single measurement path sensors (order code Sxx), the internal tubes are connected end to end, creating a single path through which all fluid flows. Manifold designs have a removable inlet/outlet block/manifold and utilize 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 typically offer shorter delivery lead times and may have a lower pressure drop than sealless designs for the same flow rate.





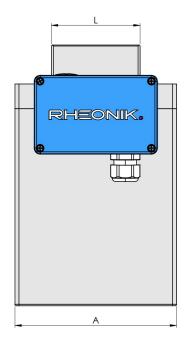
Note

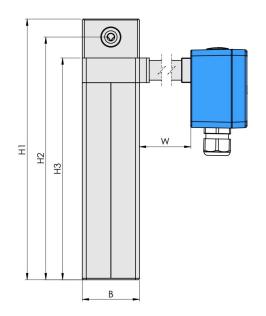
All dimensions in the following pates are for standard design products. For customization of face-to-face length and/or process connection types other than the ones listed on the following page, please consult factory. Note that larger diameter flange process connections are always possible. The tolerance of the process connections is ± 2 mm.



Manifold design with threaded process connections

Parallel tube / dual measurement path Order Codes: PMO/PHO





PM0 / PH0 Process Connection	Dim. L mm / in	Order Code
Female Thread G 1/2" - PM0	80 / 3.15	G1
Female Thread 1/2" NPT- PM0	80 / 3.15	N1
Autoclave 9/16" MP - 13/16" - 16 UNF Female Thread (only PH0)	90 / 3.54	P2

PM0 / PH0 Dimensions	mm	in
А	189	7.44
В	58	2.28
H1 (PM0, PH0)	305	12.01
H2	286	11.26
H3	265	10.43
W	see page 15	

Manifold Pressure Ratings @ 120 °C / 248 °F

PM0 - 700 bar / 10150 psi

PHO - 1220 bar / 17695 psi (20000 psi @ 50 °C / 122 °F)

Weights and Shipping Dimensions

- Weight for sensor with threads:
 ~7 kg/15.4 lb
- Shipping carton size: ~50 x 50 x 50 cm (20 x 20 x 20 in)
- Gross weight with RHE28, packaging: ~13 kg/28.7 lb

Material of Manifold and Seals (Wetted Part)

The connection block/manifold is made of SS316L. 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 Codes on page 19. Other seals on request.

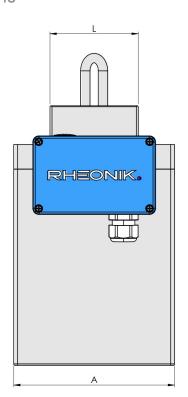
Temperature Range	PM0	PH0
N1	FKM	FKM
NA	FVMQ	FVMQ
E2	FFKM*	n/a

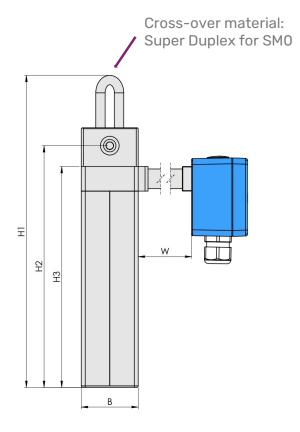
^{*}FFKM seals minimum temperature is -20 °C/-4 °F; p $_{max}$ = 700 bar



Manifold design with threaded process connections

Serial tube / single measurement path Order Codes: SMO





SM0 Process Connection	Dim. L mm / in	Order Code
Female Thread G 1/2" - SM0	90 / 3.54	G1
Female Thread 1/2" NPT - SM0	90 / 3.54	N1

SM0 Dimensions	mm	in
А	189	7.44
В	58	2.28
H1	358	14.09
H2	286	11.26
H3	265	10.43
W	see pa	age 15

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

Weights and Shipping Dimensions

- Weight for sensor with threads:
 ~7 kg/15.4 lb
- Shipping carton size: ~50 x 50 x 50 cm (20 x 20 x 20 in)
- Gross weight with RHE28, packaging: ~13 kg/28.7 lb

Material of Manifold and Seals (Wetted Part)

The connection block/manifold is made of SS316L. 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 Codes on page 19. Other seals on request.

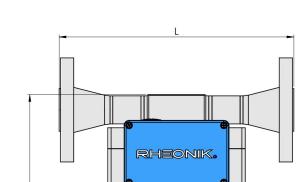
Temperature Range	SM0
N1	FKM
NA	FVMQ
E2	FFKM*

^{*}FFKM seals minimum temperature is -20 °C/-4 °F; p $_{max}$ = 700 bar

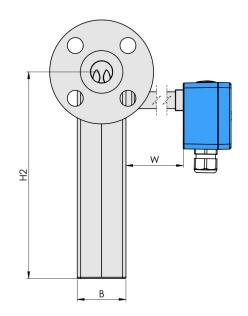


Manifold design with flanged process connections

Parallel tube / dual measurement path Order Code: PMO







PM0 Process Connection	Dim. L mm / in	Order Code	
Standard	ı		
Flange ANSI 1" 150# RF/SF	280 / 11.02	A1	
Flange ANSI 1" 300# RF/SF	280 / 11.02	A2	
Flange ANSI 1" 600# RF/SF	300 / 11.81	А3	
Flange ANSI 1" 1500# RF/SF	340 / 13.39	A4	
Flange ANSI 1" 1500# RTJ	340 / 13.39	R1	
Flange DIN DN25/PN40 Form B1	280 / 11.02	D1	
Flange DIN DN25/PN100 Form B2	300 / 11.81	D2	
Flange JIS B 2220 RF 10k 25A (1")	280 / 11.02	J1	
Flange JIS B 2220 RF 20k 25A (1")	280 / 11.02	J2	
Non-Standard (longer lead times, extra price)			
Flange ANSI ½" 150# RF/SF	260 / 10.24	AA	
Flange ANSI ½" 300# RF/SF	260 / 10.24	AB	
Flange ANSI ½" 600# RF/SF	280 / 11.02	AC	
Flange ANSI ½" 1500# RTJ	320 / 12.60	RA	
Flange DIN DN15/PN40 Form B1	280 / 11.02	DA	
Flange DIN DN15/PN100 Form B2	280 / 11.02	DB	
Flange JIS B 2220 RF 10k 15A (1/2")	260 / 10.24	JA	
Flange JIS B 2220 RF 20k 15A (1/2")	260 / 10.24	JВ	

PM0 Dimensions	mm	in
А	189	7.44
В	58	2.28
H1 (PM0)	305	12.01
H2	286	11.26
Н3	265	10.43
W	see page 15	

Material of Manifold and Seals (Wetted Part)

The connection block/manifold is made of SS316L. 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 Codes on page 19. Other seals on request.

Temperature Range	PM0
N1	FKM
NA	FVMQ
E2	FFKM*

^{*}FFKM seals minimum temperature is -20 °C/-4 °F; p_{max} = 700 bar

<sup>Weight for sensor with 1" 150# flanges: ~9 kg/19.8 lb
Shipping carton size: ~50 x 50 x 50 cm (20 x 20 x 20 in)</sup>

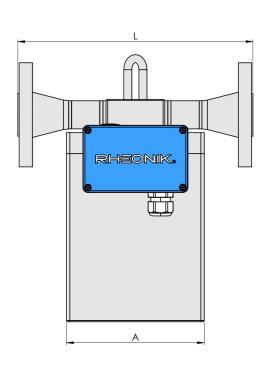
Gross weight with RHE28, packaging: ~15 kg/33.1 lb

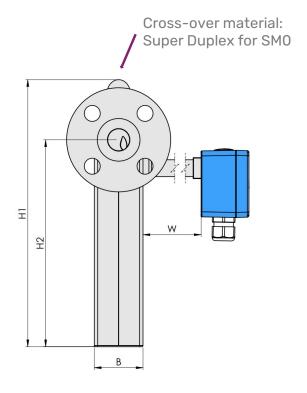


Manifold design with flanged process connections

Parallel tube / dual measurement path

Order Code: SMO





SM0 Process Connection	Dim. L mm / in	Order Code	
Standard	İ		
Flange ANSI 1" 150# RF/SF	280 / 11.02	A1	
Flange ANSI 1" 300# RF/SF	280 / 11.02	A2	
Flange ANSI 1" 600# RF/SF	300 / 11.81	А3	
Flange ANSI 1" 1500# RF/SF	340 / 13.39	Α4	
Flange ANSI 1" 1500# RTJ	340 / 13.39	R1	
Flange DIN DN25/PN40 Form B1	280 / 11.02	D1	
Flange DIN DN25/PN100 Form B2	300 / 11.81	D2	
Flange JIS B 2220 RF 10k 25A (1")	280 / 11.02	J1	
Flange JIS B 2220 RF 20k 25A (1")	280 / 11.02	J2	
Non-Standard (longer lead times, extra price)			
Flange ANSI ½" 150# RF/SF	260 / 10.24	AA	
Flange ANSI ½" 300# RF/SF	260 / 10.24	AB	
Flange ANSI ½" 600# RF/SF	280 / 11.02	AC	
Flange ANSI ½" 1500# RTJ	320 / 12.60	RA	
Flange DIN DN15/PN40 Form B1	280 / 11.02	DA	
Flange DIN DN15/PN100 Form B2	280 / 11.02	DB	
Flange JIS B 2220 RF 10k 15A (1/2")	260 / 10.24	JA	
Flange JIS B 2220 RF 20k 15A (1/2")	260 / 10.24	JB	

SM0 Dimensions	mm	in
А	189	7.44
В	58	2.28
H1 (SM0)	358	14.09
H2	286	11.26
Н3	265	10.43
W	see page 15	

Material of Manifold and Seals (Wetted Part)

The connection block/manifold is made of SS316L. 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 Codes on page 19. Other seals on request.

Temperature Range	SM0
N1	FKM
NA	FVMQ
E2	FFKM*

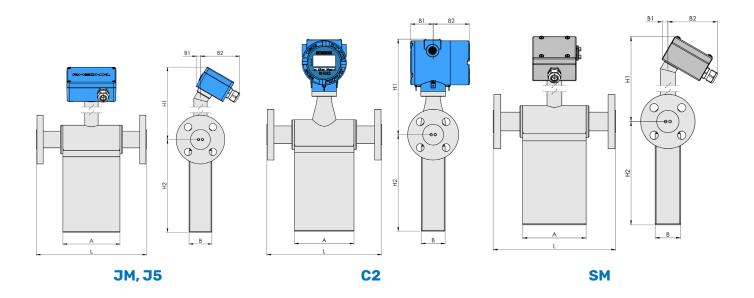
^{*}FFKM seals minimum temperature is -20 °C/-4 °F; p_{max} = 700 bar

- Weight for sensor with 1" 150# flanges: ~9 kg/19.8 lb
- Shipping carton size: \sim 50 x 50 x 50 cm (20 x 20 x 20 in)
- Gross weight with RHE28, packaging: ~15 kg/33.1 lb



Sealless design with flanged/hub process connections

Parallel tube / dual measurement path Order Code: PF0



PF0 Process Connection	Dim. L mm / in	Order Code
Flange ANSI 1" 150# RF/SF	300 / 11.81	A1
Flange ANSI 1" 300# RF/SF	300 / 11.81	A2
Flange ANSI 1" 600# RF/SF	320 / 12.60	А3
Flange ANSI 1" 1500# RF/SF	340 / 13.39	A4
Flange ANSI 1" 2500# RF/SF	360 / 14.17	A5
Flange ANSI 1" 1500# RTJ	340 / 13.39	R1
Flange ANSI 1" 2500# RTJ	360 / 14.17	R2
Flange DIN DN25/PN40 Form B1	300 / 11.81	D1
Flange DIN DN25/PN100 Form B2	320 / 12.60	D2
Flange JIS B 2220 RF 10k 25A (1")	300 / 11.81	J1
Flange JIS B 2220 RF 20k 25A (1")	300 / 11.81	J2
Grayloc® Hub 1.5" GR11	360 / 14.17	H1

B2 (JM, J5)	100
H1 (JM, J5)	197
B1 (C2)	55
B2 (C2)	88
H1 (C2)	234
B1 (SM)	13
B2 (SM)	113
H1 (SM)	192

PF0

DimensionsA

В

H2

B1 (**JM, J5**)

mm

170

58

275

11

in

6.69

2.28

10.83

0.43 3.94 7.76 2.17 3.46 9.21 0.51 4.45 7.56

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

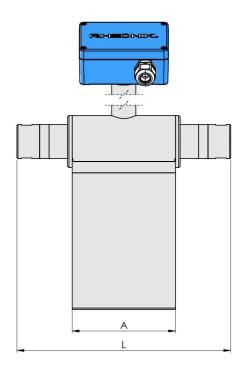
- Weight for sensor with 1" 150# flanges: ~8 kg/17.6 lb
- Shipping carton size: ~50 x 50 x 50 cm (20 x 20 x 20 in)
- Gross weight with RHE28, packaging: ~14 kg/30.9 lb

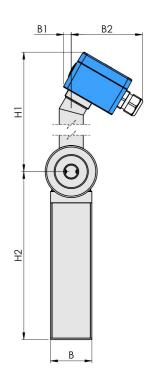


Sealless design with threaded process connections

Parallel tube / dual measurement path

Order Code: PFT





PFT Process Connection	Dim. L mm / in	Order Code
Female Thread G 1/2"	325 / 12.80	G1
Female Thread 1/2" NPT	325 / 12.80	N1
Autoclave 9/16" MP - 13/16" - 16 UN Female Thread	325 / 12.80	P2

PFT Dimensions	mm	in
А	170	6.69
В	58	2.28
H2	275	10.83
B1 (JM, J5)	11	0.43
B2 (JM, J5)	100	3.94
H1 (JM, J5)	197	7.76
B1 (C2)	55	2.17
B2 (C2)	88	3.46
H1 (C2)	234	9.21
B1 (SM)	13	0.51
B2 (SM)	113	4.45
H1 (SM)	192	7.56

Weights and Shipping Dimensions

- · Weight for sensor with threads: ~7.5 kg/16.5 lb
- Shipping carton size: ~50 x 50 x 50 cm $(20 \times 20 \times 20 \text{ in})$
- · Gross weight with RHE28, packaging: ~13.5 kg/29.8 lb

Material and pressure rating of process connection:

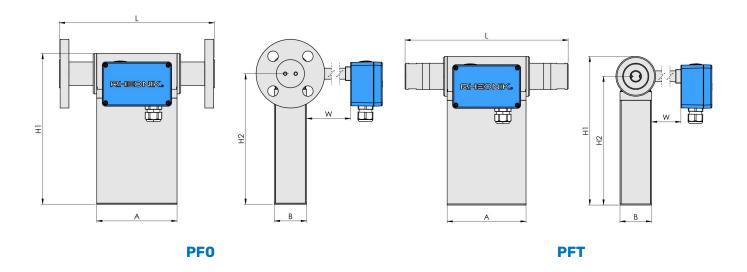
Generally, the material of the connection is identical to the measurement tube material selected. Exception may occur, e.g., Swagelok is always SS316.

The pressure rating for G thread connections is 540bar@120°C, 700bar@120°C for NPT.



Sealless design with flanged/hub and threaded process connections for E3/H4 temperature range

Parallel tube / dual measurement path Order Code: PFO/PFT



PF0 Process Connection	Dim. L mm / in	Order Code
Flange ANSI 1" 150# RF/SF	300 / 11.81	A1
Flange ANSI 1" 300# RF/SF	300 / 11.81	A2
Flange ANSI 1" 600# RF/SF	320 / 12.60	A3
Flange ANSI 1" 1500# RF/SF	340 / 13.39	A4
Flange ANSI 1" 2500# RF/SF	360 / 14.17	A5
Flange ANSI 1" 1500# RTJ	340 / 13.39	R1
Flange ANSI 1" 2500# RTJ	360 / 14.17	R2
Flange DIN DN25/PN40 Form B1	300 / 11.81	D1
Flange DIN DN25/PN100 Form B2	320 / 12.60	D2
Flange JIS B 2220 RF 10k 25A (1")	300 / 11.81	J1
Flange JIS B 2220 RF 20k 25A (1")	300 / 11.81	Ј2
Grayloc® Hub 1.5" GR11	360 / 14.17	H1
Essethenikub sanastinas (s. a. Bastas Calasti Taskish) alama		

PF0/PFT E3/H4 Dimensions	mm	in
А	170	6.69
В	58	2.28
H1	312	12.28
H2	275	10.83
W	see page 15	

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

PFT Process Connection	Dim. L mm / in	Order Code
Female Thread G 1/2"	325 / 12.80	G1
Female Thread 1/2" NPT	325 / 12.80	N1
Autoclave 9/16" MP - 13/16" - 16 UN Female Thread	325 / 12.80	P2

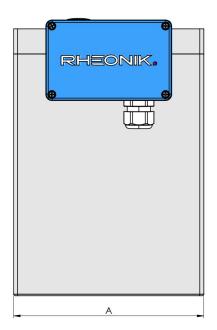
- Weight for sensor with 1" 150# flanges: ~8 kg/17.6 lb
- Shipping carton size: ~50 x 50 x 50 cm (20 x 20 x 20 in)
- Gross weight with RHE28, packaging: ~14 kg/30.9 lb

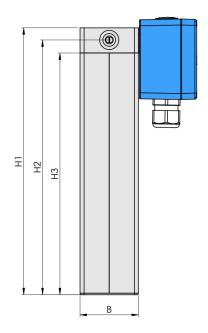


Sealless design with threaded process connections

Parallel tube / dual measurement path

Order Code: PMT





PMT Process Connection	Dim. A mm / in	Order Code
Autoclave 9/16" MP - 13/16" - 16 UN female thread	189 / 7.44	P2
Autoclave 3/4" MP - 3/4" - 14 NPSM female thread	189 / 7.44	P3

PMT Dimensions	mm	in
А	189	7.44
В	58	2.28
H1 (P2 Autoclave)	265	10.43
H1 (P3 Autoclave)	274	10.79
H2 (P2 Autoclave)	253	9.96
H2 (P3 Autoclave)	256	10.08
Н3	240	9.45

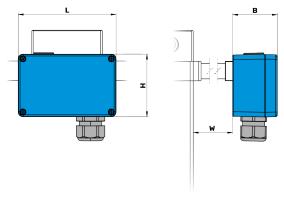
- Weight for sensor with threads: ~7.5 kg/16.5 lb
- Shipping carton size: ~50 x 50 x 50 cm $(20 \times 20 \times 20 \text{ in})$
- Gross weight with RHE28, packaging: ~13.5 kg/29.8 lb



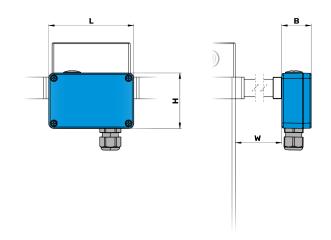
Electrical Connection Options To Transmitters

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 both integral and remote mounting styles. A range of connection options is available to suit all application requirements.

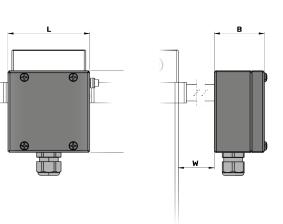
Order Code: JM (J5 with RHE45 Integral Transmitter) Standard Coated Aluminum Terminal Box



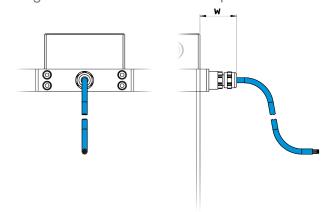
Order Code: PM Compact Coated Aluminum Terminal Box



Order Code: SM Terminal Box and Entire Enclosure in SS 316



Order Code: TM Integral PTFE Cable (No Terminal Box). Std. Length 2 m. Can be extended up to max 10 m



Connection Option	Dimension	mm	in
JM, J5 Terminal Box	LxHxB	125 x 80 x 57	4.92 x 3.15 x 2.24
PM Compact Terminal Box	LxHxB	98 x 64 x 34	3.86 x 2.52 x 1.34
SM SS316 Terminal Box	LxHxB	100 x 100 x 61	3.94 x 3.94 x 2.40
TM Integral PTFE Cable	W	41	1.61
JM, J5, PM, SM with Temperature Range N1, NA	W	2	0.08
JM, J5, PM, SM with Temperature Range E2, E3	W	100	3.94

JM, SM Terminal boxes are supplied with an M20 x 1.5 cable entry, optional entries available – see Separately Ordered Options, page 19 PM Compact Terminal boxes are supplied with an M16 x 1.5 cable entry

For details of the integral transmitter used with option J5, please see the RHE45 datasheet

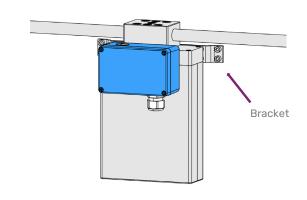


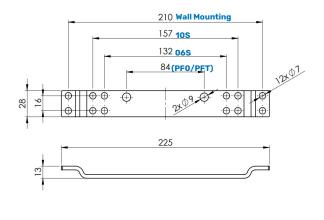
Installation/Mounting Schemes

Recommended for sensitive, low flow installations (order codes see page 19 "Accessories")

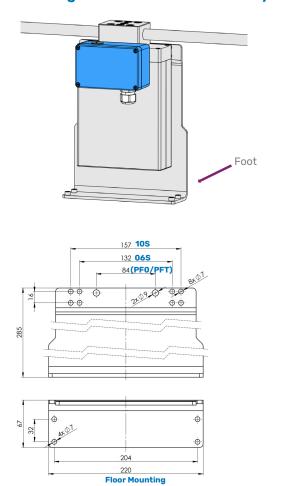
Pipe Support Brackets Pipe Support Pipe Support Pipe Support Pipe Support Thread dimensions ground plate PFO/PFT 170 84 2x M8x16

Wall Mounting Bracket Accessory





Floor Mounting "Foot" Bracket Accessory





Electrical Connection to Transmitter Compatibility

Electrical connection option selections are compatible with the transmitter range according to the following table. Note that economical blind front versions of some transmitters are available where displays and keypads are not required. The wide range of Rheonik sensors and transmitters provide tremendous options for system designers and end users alike.

Sensor Connection Options	n		0 0				
	Order Code	JM	SM	ТМ	J5	C2	РМ
(had)	RHE 21	√	√	√	-	_	√
1.8154	RHE 26	√	√	✓	-	_	✓
1.8154 1.8154 1.8154	RHE 27	√	√	✓	-	-	√
1.054 1.054	RHE 28	√	√	✓	-	-	√
1,854	RHE 42	√	√	✓	-	√	√
1.8154 1.8154	RHE 45	-	-	_	✓	_	-
PRHESONIC PARE 46	RHE 46	√	√	√	_	_	√



RHM 10 Part Number Code

Temperature 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 (-321 to 122 °F) - only sealless H4 HT from -20 to +350 °C (-4 to +662 °F) - only sealless Pressure Code for $p_{\text{max}}\,\text{of}\,\text{Measuring Loops}$ See pressure ratings page for ratings and codes Construction Type - p_{max} indications refer to 120°C / 248°F PMO Parallel block/manifold in SS316L with seals, p_{max} = 700 bar SMO Serial block/manifold in SS316L with seals, $p_{max} = 700 \text{ bar}$ PHO Parallel block/manifold in SS316L with seals, p_{max} = 1220 bar (20000 psi @ 50 °C/122 °F) - only Autoclave PMT Parallel, sealless only for H2 applications, HP material only, $p_{max} = 1000 \text{ bar} - \text{only Autoclave}$ PFO Parallel Tube, sealless - only with Flange / Hub Connections PFT Parallel Tube, sealless - only with Thread Connections **Material of Measuring Loops** 35 SS316L / EN 1.4435 / UNS S31603 (standard for P1) HP Sandvik HP160 (no EN / UNS no.) 10 SuperDuplex / EN 1.4410 / UNS S32750 M3 Alloy C22 / EN 2.4602 / UNS N06022 See mechanical construction pages for available connections and codes **Electrical Connection to Transmitter** Terminal Box coated Aluminum, M20 x 1.5 cable entry, see Accessories for others - not with Haz. Area A0 Alu Box ready for integrated RHE45 - temp. restrictions apply - only Haz. Area NN J5 ΡМ Extra compact Terminal Box, coated Aluminum, M16 x 1.5 cable entry - not with Haz. Area A0, No Option T1 Terminal Box and entire Enclosure/Housing in SS 316, M20x 1.5 cable entry, see Accessories for others SM TM Integral PTFE Cable to RHE, 2m - not with H4 Temp., Haz. Area A0. C0 only with N1, NA C2 Prepared for compact transmitter mount RHE42 - temperature restrictions apply **Options Codes** See options listing for specific codes Hazardous Area Certifications (details see page 20) NN Without Ex Approval A2 ATEX/IECEx Approvals Zone 2 A1 ATEX/IECEx Approvals Zone 1 - requires suitably rated RHE AO ATEX/IECEx Approvals Zone 0 - requires Elec. Conn. SM, suitably rated RHE C2 CSA Approval US-Canada Class I, Zone 2, Gas IIC CO 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 ≤1" - Sound Engineering Practice **Performance Certification** NN No Performance Certification AB ABS Approval for marine applications - includes Approval for RHE Transmitter DV DNV approval for marine applications – requires RHE42/45, only for RHM with flange connection R9 OIML R139 approval for hydrogen dispensers - requires RHE2x 9R OIML-CS R139 approval for hydrogen dispensers - requires RHE4x MH MID MI002 Approval for H2 metering - requires RHE2x Mass Flow, Density Calibration Selection See performance page for code options **Manufacturing Instruction Codes** See instructions listing for specific codes



Options Codes

Order Code	
NN	No options selected
T1	Terminal box with cable entry upwards/gas installation
TO	Set-off terminal box for N1, NA temperature range (included in E2, E3)
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, p_{max} = 700 bar
EP	EPDM** seals for manifolds instead of standard seals - recommended for refrigerants

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

EPDM seals only for N1, NA temperature range (-50 - +120°C), only for p1, p2 pressure range, only $_$ M0 construction type List multiple options in the sensor part number in the same order as the above list

Manufacturing Instructions

Order Code	
N	No additional manufacturing instructions
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

List multiple options in the sensor part number in the same order as the above list

Options

Order Code ORHM	
E1	Terminal box prepared for ½" NPT cable entry
E2	Terminal box prepared for M25x1.5 cable entry (only with electrical connection SM)
E3	Terminal box prepared for 3/4" NPT cable entry (only with electrical connection SM)
E5	Terminal box prepared for M20 x 1.5 cable entry in SS316 (only with electrical connection SM)
E6	Terminal box prepared for ½" NPT cable entry in SS316 (only with elecrical connection SM)
TP	Separate TAG Plate in Stainless Steel (TAG information only)
TC	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 ARHM06/10-	
М	Wall mounting bracket - highly recommended for sensitive, low flow installations
MF	Floor mounting bracket



Hazardous Area Certifications

Order Code	Zone / Division	Approval	Labeling
A2	Zone 2	ATEX IECEx	Ex ec IIC T6T1 Gc Ex ec IIC T6T1 Gc
A1	Zone 1	ATEX IECEx	Ex ib IIC T6T1 Gb
Α0	Zone 0	ATEX IECEx	⟨Ex⟩ II 1G Ex ia IIC T6T1 Ga Ex ia IIC T6T1 Ga
C2	Zone 2	USA/Canada	Class I, Zone 2, AEx nA IIC T6T1 Gc
CO	Div 1, Zone 0	USA/Canada	Class I, Div 1, Groups A, B, C and D T6T1; Class I, Zone 0, AEx ia IIC T6T1 Ga



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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Tel + 49 (0)8134 9341-0 Info@rheonik.com

