

HONEYWELL FUEL OIL METERS

Industrial Fuel Oil Meters · Sizes 1/2", 3/4" and 1"

Building managers have more tools to control their facility's systems. They need accurate reliable meters to provide input data.

Honeywell oil meters provide fuel consumption measurements to users in flexible formats. Whether directly displaying totalization, showing consumption in an accessible location, or providing high resolution information to user's systems, the oil meters fulfill user's needs for accurate, reliable information.

OPERATION

This Honeywell line of high precision oscillating piston oil flow meters covers a range of flows from 6.0 to 800 GPH. These meters are capable of handling a wide viscosity range including light and medium heating oil, diesel, and even heavy heating oil (meters 3/4" and 1"). Accuracy is $\pm 1\%$ throughout the operating flow range for each meter. Each meter is tested with #2 fuel oil at 70°F to verify the accuracy.

Typical applications of the Honeywell oil meters include: Measuring heating oil consumption in burners for heating units and industrial furnaces; measuring fuel consumption in land-based and sea-based diesel engines including emergency power generators; industrial batching applications.

The meters should be sized according to anticipated flow rates for the system. Users may install piping reducers to fit a properly sized meter into existing piping. The user has the option of mounting these meters horizontally, vertically or on any plane in between. To assist reading at whatever angle the meter is mounted, the register dial may be rotated through a full 360° (except on reed pulser units) Honeywell oil meters include a bottom plate that is easily removed to allow for cleaning or inspection of the measuring chamber without removing the meter from the line. Also, the register face features a 1:1 piston ratio low-flow indicator to detect plumbing leaks.

Pulse units are available in both high and low speed pulse outputs, allowing interfacing for batch operations, rate of flow indication, or remote readouts and control. Typically, reed pulsers are used for remote totalization. The high resolution of the inductive pulser makes it ideal for rate of flow or batching applications. The electronic register version directly provides a 4-20 mA rate of flow signal to building automations system inputs.

MATERIALS

Meter Body: Cast Bronze

Working Chamber: Brass

Thimble (Bushing): Brass (Honeywell 20), Ryton (Honeywell 15 and 25)

Shutter: (Honeywell 20) Ryton, (Honeywell 15 and 25)

O-Rings: Viton

Piston: Anodized aluminum

Safety Filter: 316 stainless steel



Honeywell 15, 20 and 25 industrial oil meters are capable of handling a wide viscosity range including light and medium heating oil and diesel.

Honeywell

OUTPUT OPTIONS

REED PULSER

- 2-wire system
- Max voltage: 48 VAC/VDC @ 50 mA
- Max switch power: 3W
- On time: 50 ± 10%
- 9ft. (3m) of 2-wire cable is provided

Note: This pulser is not polarity (+/-) sensitive. This pulser adds approximately 0.2lbs to the weight of the meter.

INDUCTIVE PULSER

- 2-wire system
- Voltage: 5-15 VDC
- Switching current: 1mA (open), 4mA (closed) @ 8 VDC
- On time: 50 ± 10%
- No cable supplied

Note: This pulser is polarity (+/-) sensitive. This pulser adds approximately 1.3lbs to the weight of the meter.

ELECTRONIC REGISTER

LCD display of totalization and flow rate

- Power Supply / Analog output
- Voltage: 6 - 30 VDC
- Analog output: 4 - 20mA passive
- Update interval: <1s
- Max load: 0 to 1116 Ω

Digital output

- Max voltage: 48 VDC
- Max current: 50mA
- Max output freq: 200 Hz
- On/off resistance: <50 Ω - > 10 MΩ

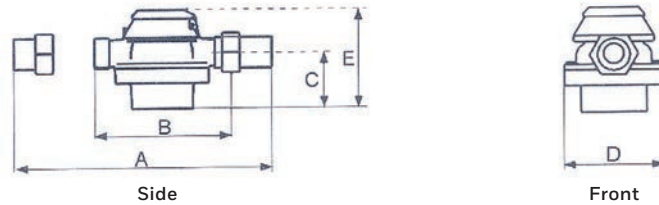
	HONEYWELL 15	HONEYWELL 20	HONEYWELL 25
PERFORMANCE	1/2"	3/4"	1"
Minimum Flow GPH (l/h)	6 (20)	10 (40)	20 (75)
Max Rec Flow GPH (l/h) ¹	105 (400)	265 (1000)	530 (2000)
Peak Flow GPH (l/h)	160 (600)	400 (1500)	800 (3000)
Accuracy	±1%	±1%	±1%
Max Operating Pressure psi (bar)	225 (15)	225 (15)	225 (15)
Max Operating Temp °F (°C)	266 (130)	266 (130)	266 (130)

REGISTER READING	1/2"	3/4"	1"
Smallest Quantity USG (l)	0.01 (0.1)	0.01 (0.1)	0.01 (0.1)
Capacity in Millions USG (l)	1 (1)	1 (10)	1 (10)

PHYSICAL DESCRIPTION	1/2"	3/4"	1"
Union Connector Thread Type Meter spud end threads are BSP	1/2" MNPT	3/4" MNPT	1" MNPT
Safety Filter Mesh (included)	40	40	40
Recommended Strainer Mesh	60	40	40

OPTIONAL PULSE UNITS	1/2"	3/4"	1"
Reed Pulses per USG (l)	10 (10 or 1)	10 (1)	1 (1)
Inductive Pulses per USG (l)	278 ² (100)	100 (100)	100 (100)

1. Meter selection should be based on the maximum recommended flow rating.
2. Prior to 2008: 1000 ppg.



DIMENSIONS AND NET WEIGHT

Meter Size	A	B	C	D	E			Weight
					Direct read	Reed pulses	Inductive pulses	
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lbs. (kg)
1/2"	9.875 (250)	6.5 (165)	1.75 (45)	4.125 (105)	4.095 (104)	5.039 (128)	7.165 (182)	4.6 (2.1)
3/4"	10.5 (270)	6.5 (165)	2.125 (54)	4.125 (105)	4.449 (113)	5.394 (137)	7.52 (191)	5.5 (2.5)
1"	11.875 (300)	7.5 (190)	3.032 (77)	5.125 (130)	5.512 (140)	6.457 (164)	8.583 (218)	9.3 (4.2)

Note: All dimensions are ±1/8".

Find Out More

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