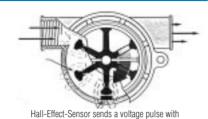
FLOW SWITCHES



RotorFlow - RFO and RFA Types

4.5 - 24 VDC Pulsed Output - RFO 0 - 10 V, RFA

Gems Sensors popularised the Rotor-Flow's paddlewheel design by combining high visibility rotors with solid-state electronics that are packaged into compact, panel mounting housings. They provide accurate flow rate output with integral visual confirmation ... all with an unprecedented price/performance ratio.



each pass of magnetic field

Specifications

| pooliioationo | | | | | |
|--|--|-----------------|--|--|--|
| Wetted materials Body Rotor pin Rotor Lens O-Ring | Polypropylene (Hydrolytically Stable, Glass Reinforced), Stainless Steel or Brass Ceramic Ryton Composite, Colour: Black Polysulfone Buna N (Metal body = Viton) | | | | |
| Max. operating pressure | Polypropylene Body: Metal Body: | 7 bar 14 bar | | | |
| Max. operating temperature | Polypropylene Body: Metal: | 80 °C 100 °C | | | |
| Electronics (both bodies) | 65 °C Ambient | | | | |
| Max. viscosity | 45 cSt | | | | |
| Input power | 4.5 to 24 Vdc, (24Vdc Regulated Supply for RFA models) | | | | |
| Output signal | 4.5 to 24 Vdc Pulse, Pulse Rate dependent on Flow Rate, Port Size and Range 0 to 10 V, available (RFA model), consult Sales Office | | | | |
| Max. current source output | 70 mA | | | | |
| Frequency output range | 25 Hz (Low Flow) to 225 Hz (High Flow) | | | | |
| Electrical termination | AWG 22 PVC-Jacketed Cable, Length 60 cm Colour Code: Red = + Vdc, Black = Ground, White = Signal output | | | | |
| | See Graphs | | | | |

High Resolution Black Rotor

Ryton composite. Each of the six rotor arms are magnetized.



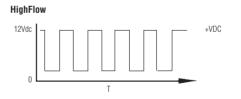
Signal Output

Output signal for RFO Types is an on/off pulse of the DC voltage supplied to the unit, it is compatible with all digital logic families. Input voltage range is 4.5 to 24 Vd.c.

Frequency of the output pulse is proportional to the flow rate and ranges from approximately 25 Hz at low flow to 225 Hz at high flow. See order number for more information.

Following examples are at 12Vdc supply

Low Flow 12Vdc +VDC



* With use of Low-Flow-Adapter supplied. See page 70 for more information. For dimensions see page RFS Please consult factory for detailed flow rate / frequency curves.

How to Order

| Body | Port | Flow Ranges (I/min) | | Output (Hz) | RFO RFO | | RFA |
|-----------------|---------------|---------------------|---------------------|-------------|--------------------------|---------|--------------------|
| Material | Size | Low Range* | Standard Range | Approximate | BSP | NPT | |
| Polypropylene | 1/4" | 0.4 to 4.0 (±7%) | 2.0 to 20.0 (±7%) | 15-180 | 155421BSPP 155421 | Consult | |
| | 1/2" | 6.0 to 45.0 (±7%) | 15.0 to 75.0 (±15%) | 20-190 | 155481BSPP | 155481 | Factory |
| | 1/4" | 0.4 to 4.0 (±7%) | 2.0 to 20.0 (±7%) | 15-180 | 156261BSPP | 156261 | Consult Factory |
| Brass | 1/2" | 6.0 to 45.0 (±7%) | 15.0 to 75.0 (±15%) | 20-190 | 156262BSPP | 156262 | |
| | 3/4" | | 20 to 112.5 (±15%) | 25-210 | 194761BSPP | 194761 | |
| | 1" | | 30 to 225 (±15%) | 15-180 | 194762BSPP | 194762 | |
| | 9/16 - 18 UNF | 0.4 to 4 (±7%) | 2 to 20.0 (±7%) | 15-180 | N/A | 165071 | |
| | 1/2" | 6 to 45 (±7%) | 15.0 to 75.0 (±15%) | 20-190 | 165075BSPP | 165075 | Consult |
| Stainless Steel | 3/4" | | 20 to 112.5 (±15%) | 25-210 | 194763BSPP | 194763 | Factory |
| | 1" | | 30 to 225 (±15%) | 15-180 | 194764BSPP | 194764 | |

^{*} With use of Low-Flow-Adaptor supplied