

# Gems Sensors & Controls®

## Liquid Flow Indicators

Cole-Parmer®



The Gems Sensors & Controls® flow rate indicators estimate flow rate or confirm flow by viewing the speed of the turning rotor through a clear lens. For best results, use indicators with a 150 µm filter on the inlet port. Choose from simple flow indicators or advanced flow rate indicators with output capabilities.

**Flow indicators** have a high-visibility, orange rotor that spins for visual verification.

**Flow rate indicators** combine a visible rotor with Hall effect sensor for visual and pulsed output flow indication. Frequency of the output pulse is proportional to the flow rate and can be sent to a digital rate meter to view the flow rate.



Scan the QR code for more information on flow indicators.

### APPLICATIONS

- Perfect for semiconductor processing and injection molding
- Ideal for general-purpose, laboratory, and manufacturing applications

### FEATURES/BENEFITS

- Rotor spins at a rate proportional to the flow for flow verification or estimation
- Either port may be used for incoming flow
- Removable lens for quick and easy cleaning

USA	+1.800.323.4340
	+1.847.549.7600
Canada	+1.800.363.5900
China	86.21.5109.9909
India	+1.800.266.1244

UK	+44 (0) 1480.272279
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Italy	+39.02.84349215
All others	+1.847.549.7600

Cole-Parmer®

coleparmer.com

\*Inquiries from Germany and France are now handled in our St. Neots office by native-speaking experts.

## Technical Specifications

Specification	Flow Indicators	Flow Rate Indicators
Max viscosity	34 cP	34 cP
Body material	Polypropylene	Polypropylene
Rotor pin material	Ceramic	Ceramic
Rotor material	Molded Nylon, Orange	PPS Composite, Black
O-ring material	Buna N	Buna N
Lens material	Polysulfone	Polysulfone
Operating temperature	-29 to 82 °C (-20 to 180 °F)	-29 to 82 °C (-20 to 180 °F)
Operating pressure	100 psi (7 bar)	100 psi (7 bar)
Input power	–	4.5 to 24 VDC
Electrical connection	–	3-Wire, 22 AWG PVC-Jacketed, 24" Cable
Output signal	–	4.5 to 24 VDC Pulse
Frequency output	–	15 to 225 Hz

## Ordering Table

Product Type	Flow Rate		Process Connection	Flow Rate Accuracy	Item Number
	Low Range*	Standard Range			
Flow Indicators	0.38 to 3.8 LPM (0.1 to 1 GPM)	1.9 to 19 LPM (0.5 to 5 GPM)	1/4" NPT(F)	–	<a href="#">48527-01</a>
Flow Indicators	5.7 to 45.4 LPM (1.5 to 12 GPM)	15.1 to 75.7 LPM (4 to 20 GPM)	1/2" NPT(F)	–	<a href="#">48527-00</a>
Flow Rate Indicators	0.38 to 3.8 LPM (0.1 to 1 GPM)	1.9 to 19 LPM (0.5 to 5 GPM)	1/4" NPT(F)	±7% full range	<a href="#">48527-02</a>
Flow Rate Indicators	5.7 to 45.4 LPM (1.5 to 12 GPM)	15.1 to 75.7 LPM (4 to 20 GPM)	1/2" NPT(F)	±7% low range ±15% standard range	<a href="#">48527-03</a>

\*With use of included low-flow adapter.