

# MINI-FLOW SENSORS

FP-5070



- ✓ **New Higher Resolution Design**
- ✓ **Accurate Low Flow Measurements to 500 ml/min**
- ✓ **Easily interfaced, Open Collector Output**
- ✓ **Wide Temperature Range -30 to 120°C (-22 to 248°F)**



FP-5072-PV shown larger than actual size.

The OMEGA® FP-5070 Mini-Flow sensor is ideal for precision low flow monitoring. The FP-5070 is available in four flow range configurations, covering a very wide range of flows. This allows for easy selection of the range that best fits your application. Typical applications include pilot plant installations, monitoring of critical flows in laboratories, fluid dispensing, bottling lines, and medical flow applications. Other successful applications include monitoring liquid ingredient additions, such as food dyes, in the food processing industry.

## SPECIFICATIONS

**Accuracy:** ±2% of flowrate

**Linearity:** ±0.25% of flowrate

**Reproducibility:** ±0.25% of flowrate

**Pressure Rating:**

80 psig @ -30°C (-22°F);

45 psig @ 120°C (248°F)

**Temperature Range:**

-30 to 120°C (-22 to 248°F)

**Viscosity Range:** 0.2 to 20.0 cSt

**Power:** 5 to 24 Vdc @ 10 mA maximum, 3-wire

**Wetted Materials:** PVDF, PTFE and FKM

**Pressure Drop:** 10 psid @ 50% flow, 26 psid @ 100% flow

**Signal Output:**

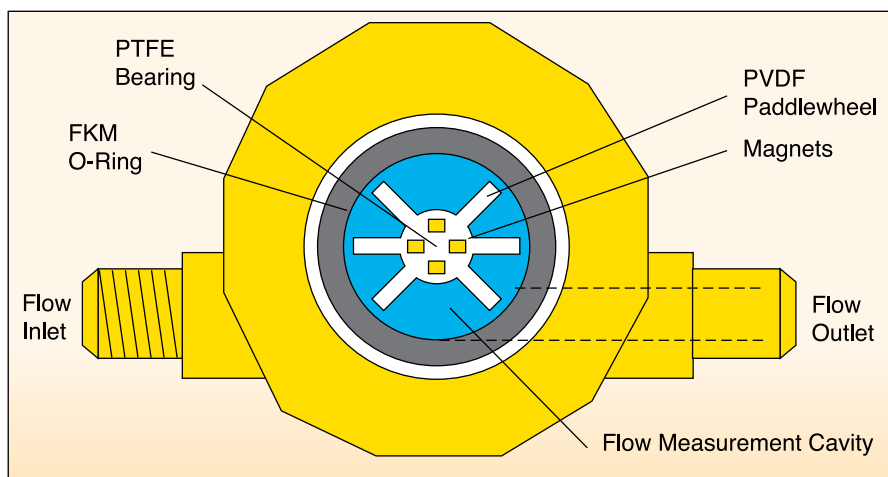
5 Volt, open collector pulse

**Fluid Connections:** ¼ FNPT

**Cable Length:** 7.5 m (25'), resistor required 10 kΩ recommended

**Dimensions:** 95 mm length x 66 mm x 68 mm W (3.74 x 2.6 x 2.68")

**Shipping Weight:** 0.4 kg (0.8 lb)



## To Order

Model No.	Range (mL/min)	Range (GPM)	Nominal K Factor (pulses/mL)
FP-5072-PV	400 to 2800	0.150 to 0.740	1.502
FP-5073-PV	700 to 4200	0.185 to 1.110	0.874
FP-5074-PV	1300 to 6000	0.343 to 1.585	0.612
FP-5076-PV	3200 to 12000	0.845 to 3.170	0.330

## Accessory

Model No.	Description
DPF701	Rate or total panel meter

Comes complete with operator's manual and 7.5 m (25') of cable.

**Ordering Examples:** FP-5074-PV, mini-flow sensor up to 6000 mL/min.

FP-5076-PV, mini-flow sensor up to 12000 mL/min, and DPF701, meter.