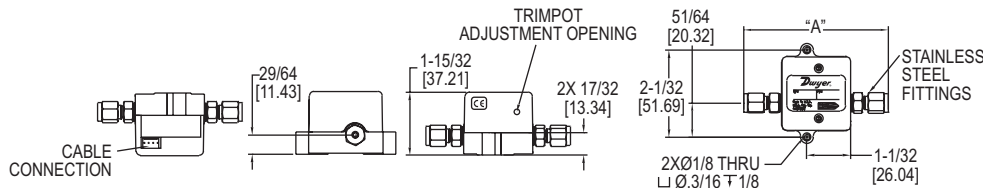
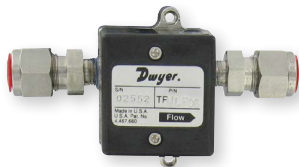


## SERIES TFM-LP

# LIQUID TURBINE FLOWMETER

316SS Body, 0 to 5 VDC and Pulse Outputs



The **Series TFM-LP Liquid Turbine Flowmeter** utilizes a turbine wheel and electro-optical detection to convert flow rates into a linear 0 to 5 VDC and pulsed output signal for recording and data logging. A power adapter or mating cable assembly is required for operation.

### FEATURES/BENEFITS

- Rugged 316 SS body
- High repeatability with patented microturbine design
- Design accurately measures flow rates with no zero drift and no required maintenance

### APPLICATIONS

- Industrial flow monitoring
- Commercial systems
- Laboratory equipment

### SPECIFICATIONS

**Service:** Clean liquids compatible with wetted materials.

**Wetted Materials:** 316 SS, acetal, sapphire, glass, epoxy, and fluoroelastomer.

**Accuracy:**  $\pm 1\%$  of FS.

**Linearity:**  $\pm 1\%$  of FS.

**Repeatability:**  $\pm 0.2\%$  of FS.

**Temperature Limits:** 41 to 131°F (5 to 55°C); Storage: 32 to 158°F (0 to 70°C); Sensitivity:  $\pm 0.2\%$  of FS per °C.

**Pressure Limits:** 500 psig (34.5 bar).

**Process Connection:** Compression fitting, see model table.

**Power Requirements:** 11.5 to 15 VDC.  
**Power Consumption:** 35 mA @ 12 VDC.

**Output Signal:** 0 to 5 VDC; Minimum 2.5 kΩ load; Pulse: 7.5 VDC peak buffered square wave.

**Electrical Connections:** Four-pin power and signal connector. A power adapter or mating cable required for operation. See accessories table.

**Enclosure Rating:** IP10 (NEMA 1).

**Weight:** 0.86 lb (390 g).

### MODEL CHART

Model	Range	Connection	"A" (in)
<b>TFM-LP03</b>	.21 to 1.6 GPH (.013 to .1 LPM)	1/8" OD	3-27/64
<b>TFM-LP04</b>	.32 to 3.2 GPH (.02 to .2 LPM)	1/4" OD	3-53/64
<b>TFM-LP05</b>	.79 to 7.9 GPH (.05 to .5 LPM)	1/4" OD	3-53/64
<b>TFM-LP06</b>	1.6 to 16 GPH (0.1 to 1 LPM)	1/4" OD	3-53/64
<b>TFM-LP07</b>	3.2 to 32 GPH (.2 to 2 LPM)	1/4" OD	3-53/64
<b>TFM-LP08</b>	7.9 to 79 GPH (.5 to 5 LPM)	3/8" OD	4-1/8
<b>TFM-LP09</b>	16 to 160 GPH (1 to 10 LPM)	3/8" OD	4-1/8

### ACCESSORIES

Model	Description
<b>A-454</b>	115 VAC power adapter and signal cable
<b>A-455</b>	230 VAC power adapter and signal cable
<b>A-456</b>	36" mating cable with spliced leads