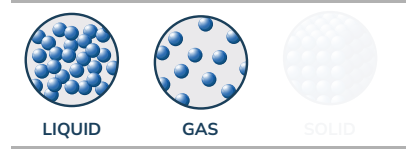
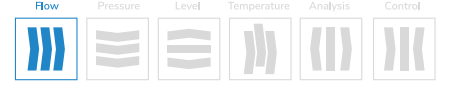


# TDHS

## Flow Indicator



## OVERVIEW

### Operation

The Model TDHS Turbine Flow Meter is designed to withstand the demands of the most rigorous flow measurement applications. The meter features a rugged 316 stainless steel housing and rotor support assembly, CD4MCU stainless steel rotor, and abrasion-resistant tungsten carbide rotor shaft and journal bearings. The Model TDHS maintains measurement accuracy and mechanical integrity in the corrosive and abrasive fluids commonly found in a variety of industrial applications.

The Model TDHS is standard with a magnetic pick-up which produces a frequency output that is proportional to its volumetric flow rate. When paired with the LCD Flow Monitor, this compact system offers local indication of both flow rate and total flow. For further flexibility, Hedland offers electronic options which convert the frequency output to an analog signal for easy electronic integration with most instruments, PLCs, and computers.

### Features

- Flow ranges from 1,5 to 833 LPM
- Rugged stainless steel construction Meter bore sizes from 1/4" to 2"
- NPT, BSP or flange end connections from 1/4" to 2" Accuracy of  $\pm 1\%$  of reading or  $\pm 0,5\%$  and  $\pm 0,2\%$  on request
- Electronic integration available with LCD Flow Monitor, F to I Intelligent Converter or the K-Factor Scaler
- Standard Manufacturer Calibration Certificate
- Optional RS-485 communication
- Optional Battery Powered Display



## TECHNICAL DATA

### Body Material

AISI 304 Stainless steel

### Rotor Material

CD4MCU Stainless steel

### Rotor Support Material

AISI 316 Stainless steel

### Rotor Shaft Material

Tungsten Carbide

### Turndown Ratio

10 : 1 standart , 20 : 1 on request

### Accuracy

±1% of reading, ±0,5 and ±0,2% on request

### Repeatability

±1%

### Pressure Rating

400 bar max.

### Temperature

-40°C...120°C , option 160°C

### Connection

Thread NPT – Female

### Power Supply

12...24 VDC for pulse 24VDC for analog and LCD  
3 VDC lithium battery for battery powered LCD

### Protection

IP65

### Hazardous Area

Ex d II B T6 on request

## FLOW RATE

| Type     | Bore Size (mm) | Connection | Flow Range (l/min) | Recommended Strainer (Mesh) |
|----------|----------------|------------|--------------------|-----------------------------|
| TDHS.006 | 6              | G 1/4"     | 3...10             | 80                          |
| TDHS.010 | 10             | G 3/8"     | 5...20             | 80                          |
| TDHS.015 | 15             | G 1/2"     | 15...100           | 60                          |
| TDHS.020 | 20             | G 3/4"     | 20...135           | 60                          |
| TDHS.025 | 25             | G 1"       | 30...165           | 40                          |
| TDHS.032 | 32             | G 1 1/4"   | 40...250           | 20                          |
| TDHS.040 | 40             | G 1 1/2"   | 50...335           | 20                          |
| TDHS.050 | 50             | G 2"       | 70...650           | 20                          |



## ORDERING

| Model |                |
|-------|----------------|
| TDHS  | Flow Indicator |

| Bore Sizes |                               |
|------------|-------------------------------|
| XXX        | Please see "Flow Rate Tables" |

| Line Size |        |
|-----------|--------|
| 008       | 1/4"   |
| 010       | 3/8"   |
| 015       | 1/2"   |
| 020       | 3/4"   |
| 025       | 1"     |
| 032       | 1 1/4" |
| 040       | 1 1/2" |
| 050       | 2"     |

| Connection |             |
|------------|-------------|
| D          | Thread Type |

| Converter Type |                                                      |
|----------------|------------------------------------------------------|
| P              | Pulse output                                         |
| A              | 4-20mA output                                        |
| V              | 0-10 VDC                                             |
| B              | Lithium battery powered with display without output  |
| L              | 4-20mA output with display                           |
| C              | RS-485 communication,with display, 24VDC             |
| H              | 4...20 mA+HART protocol, with display, 24VDC display |

| Accuracy |                  |
|----------|------------------|
| 10       | ±1% of reading   |
| 05       | ±0,5% of reading |
| 02       | ±0,2% of reading |

| Range Type |                     |
|------------|---------------------|
| S          | Standart Flow Range |

| Body Material |             |
|---------------|-------------|
| S             | AISI 304 SS |
| L             | AISI 316 L  |

| Enclosure |                         |
|-----------|-------------------------|
| N         | IP65                    |
| E         | Ex d II B T6 flameproof |

| Temperature Range |               |
|-------------------|---------------|
| 012               | -40°C...120°C |
| 016               | -40°C...160°C |

