Hydraulic Diagnostic Products

Flo-tech Portable Hydraulic Testers
Flo-tech’s compact, self-contained portable hydraulic testers provide fast diagnostic troubleshooting of all types of mobile or stationary hydraulic systems. Models available include the versatile PFM6, the PFM6BD for bi-directional applications and the all digital PFM8 which includes a dynamometer.

- Flow ranges from 1-15 to 7-199.9 GPM (4-56 to 26-757 LPM)
- Port sizes from SAE 12 to SAE 24 (G 3/4 to G 1 1/2)
- Accuracy of ±1% of full scale (forward flow)
- Temperatures to 300 °F (150 °C)
- Pressures up to 6000 psi (414 bar)

Flo-tech Turbine Flow Sensors
Flo-tech’s turbine flow sensors are available in a variety of configurations for measuring flow, as well as temperature and pressure, of hydraulic fluids or other compatible fluids. Four basic models are available – Activa™, Ultima, Classic and Quad.

- Flow ranges from 0.4-7 to 10-350 GPM (1.5-26 to 37-1324 LPM)
- Port sizes from SAE 8 to SAE 20, (G 1/4 to G 1 1/4); SAE 20 to SAE 24, Code 61; and SAE 20 to SAE 32, Code 62
- Optional pressure and temperature analog outputs
- Accuracy of ±1% of full scale (forward flow)
- Temperatures to 300 °F (150 °C)
- Pressures up to 6000 psi (414 bar)
- Bi-directional flow measurement available (Quad models)

Flo-tech Digital Displays/Signal Processors
Flo-tech also offers a line of digital panel displays/signal processors to provide a complete flow measurement package. Various models are available that will accept either the 4-20 mA signal from Flo-tech’s Activa Sensor Array or frequency signal input from the Ultima, Classic and Quad turbine flow sensors.

- Displays rate and/or total
- AC, DC, battery and loop powered versions
- Built-in sensor or transmitter power supply
- Optional analog output, digital communications and setpoint alarms
- CE compliant
- USB powered
- Easy to use, plug and play
- Calculates hydraulic power
- Select continuous monitoring or capture data manually
- Logs up to 12 hours
- Records alarm history

Flo-check® USB Hydraulic System Analyzer
The Flo-check USB represents the next generation of hydraulic test equipment. The device simultaneously measures flow, pressure, temperature and power within a hydraulic system. This data is displayed and logged through a custom Windows®-based software application; data is received from the Analyzer through a standard USB cable (both software and cable are included with the unit). The Flo-check USB is ideal for testing, troubleshooting and diagnosis in mobile and industrial hydraulic applications, and for setting hydraulic components such as pumps, valves and motors. The unit is bi-directional and includes a low-resistance load valve and internal pressure relief disc.

- ±1% of full scale accuracy
- Field selectable US or metric readings
- High and low set point alarms for flow, pressure and temperature
- Captures pressure spikes up to 690 bar (10,000 psi) 0.2 milliseconds duration
- Exports saved data to Microsoft Excel® and other spreadsheet programs
- USB powered
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HEDLAND® Flow Meters

Product Summary

Flo-tech™
Hydraulic Diagnostic Products

HEDLAND,® HEDLAND,® HEDLAND and Flo-tech® are registered trademarks of Hedland, Inc.  Flow-Alert,® Flow-Alert and Flow-Alert products are trademarks of Flow-Alert, Inc.  Flow-Alert, Inc. is an independent licensee of The Technidyne Corporation.  Othertrademarks are the property of their respective owners.  Product specifications subject to change without notice.

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Variable Area Flow Meters

Basic In-line Flow Meters
Hedland offers a complete line of over 15,000 variable area flow meters to measure oil, phosphate esters, water and water-based fluids, as well as air and other compressed gases. In addition to the basic in-line model, these variable area flow meters are available in high temperature models and test kits with pressure gauge.

- Rugged, durable construction featuring aluminum, brass and stainless steel bodies
- Most models available in sizes from 1/4" to 3"
- Accuracy of ±2% of full scale
- Temperatures to 240 °F (116 °C), 400 °F (204 °C) for high temperature models
- Pressures up to 6000 psi (414 bar)
- Operates in any position
- No flow straighteners or special piping required
- 360° rotatable scales
- Custom scales available

Flow-Alert™ Flow Switches
The Flow-Alert flow switches provide both visual flow indication and the capability to signal alarms, open or close circuits, trigger warning lights and buzzers, and shut down pumps or other equipment.

- Micro switch (latching) or reed switch (proximity) models available
- Choice of one or two switches per meter
- Available in meter sizes from 1/4" to 1 1/2"
- Accuracy of ±2% of full scale

MR Flow Transmitters
The MR flow transmitters feature non-contact sensor electronics and are designed to operate as part of a totally integrated electronic process control/data acquisition system.

- Digital flow rate and total flow indication
- In-field compensation for application specific fluid parameters eliminates the need for custom scales
- Provides 4-20 mA, 0-10 Vdc or 0-5 Vdc analog output
- CE compliant

EZ-View® In-line Flow Meters
The EZ-View product line is a reliable, trouble-free flow rate indicator for low pressure applications. Constructed of high-impact polysulfone plastic, these meters provide a low cost, rugged flow measurement solution for both liquid and air/gas applications.

- End fittings in brass, 303 stainless steel or PVC
- Available in sizes from 1/4" to 2"
- Temperatures to 250 °F (121 °C)
- Pressures up to 325 psi (22.4 bar)
- Accuracy of ±5% of full scale
- Flow-Alert™ models available

Additional Technologies

HTTF Transit Time Ultrasonic Flow Meters
The HTTF Series is a portable flow meter utilizing transit time ultrasonic technology. Featuring non-invasive, clamp on transducers, these meters are designed for long- or short-term flow measurement surveys on full pipe liquid systems for pipe sizes 1/2" and higher.

- Non-invasive meter clamps onto the outside of piping
- Easy, low cost installation
- No moving parts for maintenance free operation
- Pipe sizes from 1/2" and higher
- Bi-directional flow capability to measure forward, reverse and net total
- Optional, removable 200,000-event Data Logger
- Software utility allows in-field calibration and configuration
- Class I, Division 2 hazardous area certification

HTTP Portable Transit Time Ultrasonic Flow Meters
Hedland's HTTP Series is a portable flow meter utilizing transit time ultrasonic technology. Featuring non-invasive, clamp on transducers, these meters are designed for long- or short-term flow measurement surveys on full pipe liquid systems for pipe sizes 1/2" and higher.

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- Optional, removable 200,000-event Data Logger
- Software utility allows in-field calibration and configuration via a wireless, infrared serial adapter
- Includes all required accessories in a compartmentalized, padded carrying case

HB Turbine Flow Meters
Designed to withstand the demands of the most rigorous flow measurement applications of water and other liquids, the HB Series turbine flow meters feature rugged stainless steel and tungsten carbide construction. For a complete system, the HB2800 flow monitor provides a local indication of both flow rate and total flow. To integrate with other instruments, PLCs and computers, Hedland also offers additional electronic accessories.

- Flow ranges from 0.6-3 to 500-5,000 GPM (2.27-11.36 to 1893-18,927 LPM)
- NPT, BSP, Victaulic®, or flange end connections from 1/2" to 10"
- Accuracy of ±1% of reading
- Temperatures to 350 °F (177 °C)
- Pressures up to 5000 psi (345 bar)
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- CSA Class I, Division 1, (intrinsically safe) certification

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- Exports saved data to Microsoft Excel® and other spreadsheet programs
- USB powered
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