Hydraulic Test Equipment
Product Overview

Hydraulic measurement and control
Testing hydraulic systems

For anyone who has experienced a hydraulic component failure when they could least afford it, the Webtec range of test equipment holds the answer.

If your system is down and oil is collecting around your feet, the downtime is costing you $$$. You need to quickly identify which component has failed, fix it, test the system and get back to work.

A Webtec portable tester will allow you, even if you are working alone, to easily and safely simulate operating conditions using the built-in load valve to help pinpoint the fault. Many customers use portable testers to validate component operation in repair and production environments. The illustration below demonstrates a DHCR tester being used with two flow meters and a phototach to measure flow, pressure, temperature and speed.

For safety, Webtec testers include the unique INTERPASS™ protection system. In the event of over-pressurisation, burst discs built-in to the load valve will safely bypass oil internally through the valve and back to tank. NOT externally into the environment or onto you.

Webtec has a policy of innovation and continuous improvement that has led to the range you see here with unique features such as the bi-directional pressure balanced load valve, internal burst discs and simplified controls.

Webtec Service Centre

We specialise in re-calibration of all hydraulic test equipment, whether from the Webtec range or another manufacturer’s. Our service department is equipped for electronic and mechanical repair work with flow, pressure and temperature calibration facilities.

Quality

Our Manufacturing division operates in accordance with ISO 9001 and all of our test references are traceable to national & international standards.

As a manufacturing company Webtec Products Ltd is ideally suited to servicing and repairing both hydraulic components and test equipment.

Further information

Please see contact details on back page.
# Flow Condition Monitoring

## Analogue and digital flow indicators

### Low pressure flow indicators

- **Flow**: Up to 150 gpm
- **Type**: Unidirectional
- **Pressure**: Up to 3500 psi
- **Ports**: SAE, NPT or BSP
- **Applications**: Hydraulic condition monitoring and test stands

- **Accuracy**: 4% FSD
- **Flow**: Up to 100 gpm
- **Type**: See below
- **Pressure**: Up to 6000 psi
- **Ports**: SAE, NPSF or BSP
- **Applications**: Hydraulic condition monitoring and test stands

### Medium pressure flow indicators

- **Ideal for tank line monitoring**
- **From 0.05 up to 30 gpm at 1000 psi**
- **Available in aluminium for oil**
- **Low cost, accuracy 5% FS**

- **Unidirectional, up to 48 gpm and 6000 psi**
- **Optional relay switch**
- **Optional thermometer**
- **Available in aluminium for oil, or brass for water**

### FlowHUB complete monitoring solution

- **Flow and temperature monitoring - Measure, display, switch, transmit**
- **Ideal for condition monitoring**
- **5 flow sizes cover range 0.25 - 100 gpm at 3000 or 6000 psi.**
- **Optional switches and analogue output (mA, V)**

- **Reversible, up to 54 gpm and 6000 psi**
- **Built-in thermometer**
- **Available in aluminium for oil**

## FlowHUB Series

- **WPC Series**
- **WPB Series**
- **Fl 750 Series**
- **Fl 1500 Series**
- **RFI 1000 Series**
# Diagnostic Test Equipment

**Portable hydraulic testers**

## Pressure Test Kits

- **PT100 Series**
  - Complete kits for pressure testing
  - Assembled to customer specification
  - Fit test points wherever required in the circuit
  - Kit includes gauges, hoses and test points

## Simplified digital testers

- **DHT ‘1’ Series**
  - Measure flow (1% FS), pressure and temperature
  - Simple ‘On / Off’ control
  - Simulate machine performance using loading valve
  - INTERPASS™ protected

## Digital Hydraulic Multimeter

- **DHM ‘3’ Series**
  - All digital display
  - Measure flow (1% IR), pressure, peak and temperature
  - Calculate power and volumetric efficiency
  - Easy to use, three standard screens
  - Measure hydraulic pump efficiency with P-Q test
  - Simulate machine performance using loading valve
  - INTERPASS™ protected

## Separate loading valve

- **HV Series**
  - Simulate machine performance (Bidirectional)
  - Five models: up to 400 gpm/6000 psi
  - Safe and clean to use, INTERPASS™ protected
  - Use separately or with LT / CT flow meters

## Accuracy
- **PT100 Series**
  - Accuracy: 4% FSD
  - Pressure: Up to 6000 psi
  - Use: See below
  - Ports: SAE, JIC or BSP
  - Applications: Agricultural, small-medium mobile machinery

- **DHT ‘1’ Series**
  - Accuracy: See below
  - Pressure: Up to 7000 psi
  - Use: Bidirectional
  - Ports: SAE or BSP
  - Applications: Mobile machinery and large fixed installations

- **DHM ‘3’ Series**
  - Accuracy: See below
  - Flow: Up to 210 gpm
  - Pressure: Up to 7000 psi
  - Use: Bidirectional
  - Ports: SAE or BSP
  - Applications: Mobile machinery and large fixed installations

## Flow
- **PT100 Series**
  - Flow: Up to 54 gpm

## Applications
- **PT100 Series**
  - Applications: Agricultural, small-medium mobile machinery

- **DHT ‘1’ Series**
  - Applications: Mobile machinery and large fixed installations

- **DHM ‘3’ Series**
  - Applications: Mobile machinery and large fixed installations
## Diagnostic Test Equipment
### Portable hydraulic testers

<table>
<thead>
<tr>
<th>Kit</th>
<th>Accuracy: 1% IR</th>
<th>Flow: Up to 400 gpm</th>
<th>Pressure: Up to 7000 psi</th>
<th>Applications: Mobile machinery and large fixed installations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DHCR1500R Kit</strong></td>
<td>Measure flow, pressure, temperature and optional speed</td>
<td>Kit designed for hydraulic testing of very large mobile machinery</td>
<td>Optional load valve rated to 1500 lpm and 420 bar to simulate machine load</td>
<td></td>
</tr>
</tbody>
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<tr>
<td><strong>DHCR Series</strong></td>
<td>Measure flow, pressure, temperature and secondary flow and speed inputs</td>
<td>Remote readout for use with LT / LTR Series</td>
<td>OEM Test kits</td>
<td></td>
</tr>
</tbody>
</table>

### Digital reading testers with remote inputs
- Measure flow, pressure and temperature
- Secondary flow and speed inputs
- Simulate machine performance using loading valve
- INTERPASS™ protected

### Analog testers with remote input
- Measure flow, pressure and temperature
- External speed input
- Simulate machine performance using loading valve
- INTERPASS™ protected

### OEM Test kits
- Custom test kits built to your specification
- Ideal tool kits for service engineers
- OEM branding and marketing solutions available
- Used by major mobile machinery OEMs worldwide

### DHT ‘2’ Series
- Flow: Up to 400 gpm
- Pressure: Up to 7000 psi
- Use: Bidirectional
- Applications: Mobile machinery and large fixed installations

### HT ‘2’ Series
- Flow: Up to 210 gpm
- Pressure: Up to 7000 psi
- Use: Bidirectional
- Applications: Mobile machinery and large fixed installations

### DHT ‘2’ Series
- Flow: Up to 400 gpm
- Pressure: Up to 7000 psi
- Use: Bidirectional
- Applications: Mobile machinery and large fixed installations

### DHCR Series
- Flow: Up to 210 gpm
- Pressure: Up to 7000 psi
- Use: Bidirectional
- Applications: Mobile machinery and large fixed installations

### OEMs worldwide
**Flow meters (SR & ID):**

- Precision turbine flow meters (1% IR)
- 9 models cover range 0.25 - 200 gpm, up to 7000 psi
- Additional top ports
- With or without built-in loading valve

**Sensors (SR & ID):**

- Pressure transducers rated up to 15000 psi
- Temperature sensor
- Speed sensor
- Current & voltage input converters for custom sensors

**Digital pressure gauge:**

- Digital pressure gauge with peak capture
- Two pressure ranges available 100 / 600 bar
- Backlit display
- Change engineering units

**Hydraulic data loggers (SR & ID):**

- Two models - choose between SR and ID
- Choose between 2 or 3 input version
- USB connectivity, Nano-USB up to 4GB
- Supplied with HPMComm software

**Hydraulic data loggers (SR):**

- 4 input data loggers with multi-line display
- High speed data capture and storage
- USB connectivity
- Supplied with HPMComm software

**Intelligent Digital (ID):**

- Digital sensors (CAN protocol) with automatic sensor recognition, connect in-line with one another using shorter cables. Uniquely identified by the datalogger.
- Application: In-depth hydraulic system fault-finding

**Hydraulic data loggers (SR & ID):**

- 3 models, offering between 16 & 26 inputs
- Connect Intelligent Digital (ID) and Sensor Recognition (SR) sensors
- Full colour 5.7” display, USB, Ethernet
- Supplied with HPMComm software

**Sensor Recognition (SR):**

- Sensors can be plugged into any input of an HPM readout, automatic recognition of the type, range and calibration of the sensor. No user input.
- Application: Mobile hydraulic system testing
**Pressure transducers**

- Models cover pressure range up to 10,000 psi.
- Accurate to 0.25% full scale
- Fast response time
- Other outputs available (mA, V)

**Temperature sensors**

- Max temperature 125 °C / 257 °F
- Rated to 7000 psi
- Fast response time
- Other outputs available (mA, V)

**CT flow meters**

- Precision turbine flow meters (1% IR)
- 8 models cover range 0.25 - 400 gpm, up to 7000 psi
- Additional top ports for pressure and temperature
- Other outputs available (mA, V, pulse)

**C2000 hydraulic data-acquisition system**

- Complete hydraulic test stand solution
- Includes sensors, hardware, software and training (optional)
- Up to 64 inputs. Choice of mA and frequency
- Display, datalog and produce test certificates

**Speed sensors**

- Speed sensor with TTL output
- 0 - 2 kHZ magnetic pickup
- Ideal for measuring pump/motor speed
- Connects directly into C2000

**Flow meters - special applications**

- Precision gear type flow meters (± 1% FS)
- Flow range 0.2 - 10 lpm up to 250 bar
- Bidirectional

**Applications:**

Condition monitoring, hydraulic test stands, control systems, remote monitoring

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**4 - 20 mA sensors:**

On-board electronics to optimise accuracy. Industry standard 4 - 20 mA output. Fast and simple to install. Other analogue outputs available.
Want to know more about our product range? Then try our new fully searchable multi-language website

Products page
- Browse using 5 major Application groups
- Featured News panel
- Full website search
- Click to find your local distributor

Product Group Page
- See all available products within your chosen Application group
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Why not visit us at www.webtec.com and see for yourself

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