



**WEBSTER INSTRUMENTS**  
(A DIVISION OF WEBTEC PRODUCTS)

## Product Update Spring 2005

**During the past year we have kept you up to date with all the latest products and developments in our wide range of hydraulic components and test equipment. In this, our first product update of 2005, we focus on some of the applications of our products and the benefits they can bring to the hydraulic technician & engineer alike.**

Our range of HPM440/460 hand held dataloggers are ideal for condition testing mobile equipment both in service and in the field. With a rugged design they provide an easy to use menu driven diagnostic test system. The HPM can also be used in conjunction with the new CT turbine flowmeter, including the latest 4 gpm model.

### Contents at a glance:-

- **Webster Gear Pumps & Motors**
- **HPM440/460 Series Data Loggers**
- **Sensors with Analog Output**
- **Information Request Form**
- **IFPE Special Offer**

For more information on any of the featured products or any of our wide range of hydraulic test equipment and components please call us on:

800-932-8378 or

email [sales@webster-inst.com](mailto:sales@webster-inst.com)

The Webster range of motors and pumps have increased availability once again and are ideal for various mobile equipment applications including mower drives, fan drives and mining applications.

Finally, we would like to thank all our customers for your business over the last year and look forward to a prosperous New Year.

**Visit us at IFPE 2005 in Las Vegas**



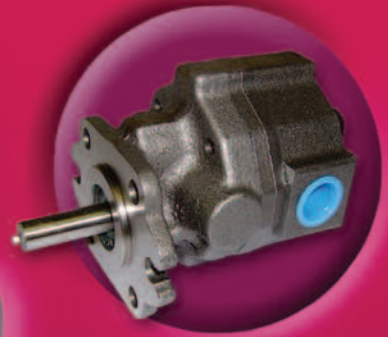
The leading international exposition and technical conference for hydraulic, pneumatic, electrical and mechanical power transmission components, systems and controls.

**Las Vegas Convention Center, March 15 - 19th, 2005**

**South Hall, 2nd Level, Booth 14130**

For more information visit  
[www.ifpe.com](http://www.ifpe.com)

**Manufacturers of hydraulic components  
and test equipment for the mobile, industrial  
and agricultural industries**



**Webster Gear Pumps  
& Motors**



**HPM Portable  
Data Loggers**







**Sensors With  
Analog Output**



**IFPE Special  
Offer**

# Webster Gear Pumps & Motors Available Again

The original Webster design gear pumps and motors with over 25 years heritage had been suffering from limited availability over the past few years. We are pleased to announce that the following models are available once again. We have many piece-parts now in stock ready for assembly and test to meet your requirement. Some special variations can be supplied, please contact us with details.

Model	General Specification	Pump	Motor
<b>B Pumps &amp; Motors</b> 	Material: High density cast iron  Use: Suitable for mining and for use with water-glycol  Various shaft configurations SAE & NPT porting	0.06 - 0.6 in <sup>3</sup> /rev  Max pressure: 3500 psi  Max speed: 3500 rpm	0.15 -0.59 in <sup>3</sup> /rev  Max pressure: 2500 psi  Max speed: 5000 rpm
<b>YB Pumps &amp; Motors</b> 	Material: Aluminium  Use: Lightweight & compact. Ideal for mobile machinery  Various shaft configurations NPT, SAE & BSP porting	0.15 - 0.73 in <sup>3</sup> /rev  Max pressure: 2500 psi  Max speed: 4000 rpm	0.29 - 0.73 in <sup>3</sup> /rev  Max pressure: 2500 psi  Max speed: 5000 rpm
<b>YC Pumps &amp; Motors</b> 	Material: Aluminium  Use: Lightweight & exceptionally compact.  Various shaft configurations NPT, SAE & BSP porting	0.73 - 1.95 in <sup>3</sup> /rev  Max pressure: 3000 psi Max speed: 3000 rpm	0.73 - 1.95 in <sup>3</sup> /rev  Max pressure: 2500 psi Max speed: 5000 rpm
<b>KB Pumps &amp; Motors</b> 	Material: Aluminium  Use: Lightweight & exceptionally compact.  Various shaft configurations SAE O-ring ports	0.86-3.88 cu.in/rev  Max pressure: 3000 psi Max speed: 3000 rpm	1.29-3.88 cu.in/rev  Max pressure: 2500 psi Max speed: 2500 rpm

# HPM440/460 Series Data Loggers



**HPM460 portable data logger**

The new range of HPM440/460 series data loggers provide an accurate, economic and user friendly solution for servicing and commissioning hydraulic systems.

## Why do I need to test my system?

Preventative system maintenance can help to avoid costly and inconvenient system failures. The HPM can be used to check that all components are functioning correctly and pinpoint problems e.g: flow loss, overheating, pressure spikes and component wear.

## Why use the HPM 440/460 series?

The user friendly rugged design is highly portable and can be either hand held or used as a desk top unit. The HPM series can be used to measure flow, pressure, temperature and speed as well as other analog signals (mA or V). Kits can be assembled to meet your specification including adaptors, test hoses, and carry case. See the overleaf for IFPE show special HPM460 kit prices.

The CT-SR series of turbine flow meters have been designed specifically for use with the HPM 440/460 series and include sensor recognition capability and built-in signal conditioning.

## HPM 440/460 key features:

1. Automatic sensor recognition - no need to spend time on configuration each time.
2. Large display - monitor up to 6 inputs simultaneously.
3. Digital display of flow, temperature, pressure, peak pressure and differential pressure with graphical representation of results.
4. Battery powered (rechargeable battery as standard)
5. Communication port allows transmission of data stored in memory or direct 'on line' to a PC using HPM comm software.
6. HPM-Win software runs on all Windows platforms providing the user with a powerful graphical display, analysis and reporting tool.



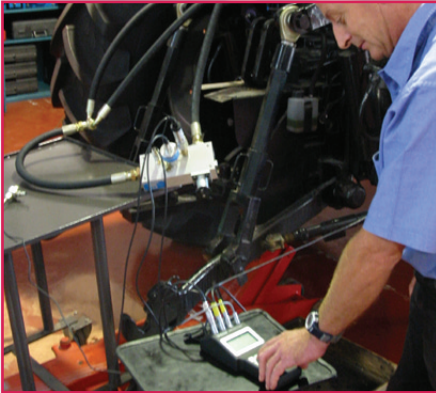
## CT-SR turbine flow meters key features:

1. Bi-directional flow - safe to use in both directions of flow.
2. Nine flow meters covering the range 0.25 - 200 gpm to suit all applications.
3. Additional sensor ports to allow temperature and pressure sensors to be easily installed.
4. Full range of pressure and temperature sensors available.
5. Flow meters available with or without loading valve.

# HPM in Action

The HPM460 portable data-logger is ideally suited to field testing and connects easily to a service engineers laptop via a USB port and comes complete with the HPM comm suite of Windows software.

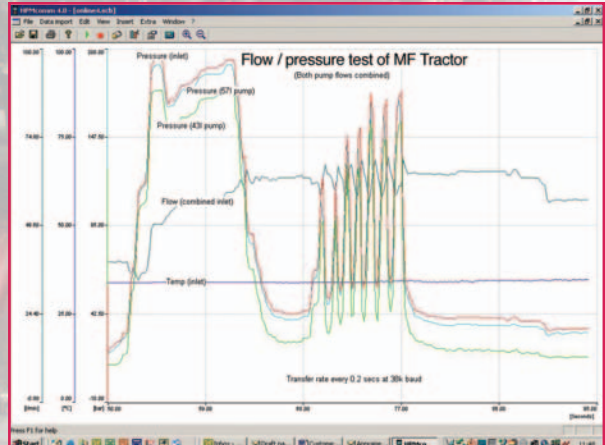
Here you can see a 300 lpm flow meter with built-in loading valve (CT300R-SR) as well 3 pressure and 1 temperature sensor connected into a tractor with results shown on the HPM460.



The built-in loading valve makes it easy for one person to run the test by themselves and progressively load the pump while measuring the flow, pressure and temperature changes. The changes are logged by the

HPM460 against time and the test can either be manually started or, in the case of an intermittent fault, triggered by a rise or fall in the reading from a sensor.

The data is saved on the HPM and can be viewed on screen. If necessary the data can then be quickly copied onto the laptop via the USB port for further analysis and graphing or easily sent to head office or a product specialist by email for their comment.



## CT & CTR Flow Meters



The CT turbine flowmeter has a built-in microcontroller that conditions the signal from the flowmeter to provide an accurate linear analog output. This enables you to connect the flowmeter directly into your digital display, PLC or custom DAQ system without having to worry about complex calibration factors or lookup tables. Three versions are available offering 4 - 20 mA current loop, 0 - 5 V or Pulse output.

## TP200 Temperature Sensor








The TP200 is a rugged temperature sensor with built-in signal amplification in a high pressure 304 SST capsule ideal for high or low pressure hydraulic applications. Linear voltage or mA output over a range of 0 - 150 C makes it ideal for connecting into panel mount displays, PLC's or data acquisition systems. Available with 1/4" NPT, #4 SAE or 1/4" BSP male connection.





## Fax Back Form

For further information on any of our featured items or on any aspect of our product range please fax this form back to us indicating your requirements.

**Please send me additional information on:**

-  HPM range of hand held dataloggers
-  Webster Gear Pumps & Motors
-  Webster Instruments at IFPE 2005
-  CT/CTR Flowmeters & TP200 Temperature Sensor
-  Please reserve me a copy of your 2005 Short Form Catalog
- Short Form Catalog on CD-ROM

**Please contact me to discuss my requirements for:**

-  Webtec Hydraulic Components
-  Webtec Hydraulic Test Equipment

*Fax back this form to*

**Toll Free Fax to: 866-356-9637 or fax 414-769-6591**

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Position in Company \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_

Fax: \_\_\_\_\_

email: \_\_\_\_\_





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WEBSTER INSTRUMENTS  
1290 E. WATERFORD AVE.  
MILWAUKEE, WI 53235

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## Special Offer for Visitors to IFPE 2005



Visiting IFPE 2005 at the Las Vegas Convention Center, March 15 - 19th, 2005?

Then bring this flyer to our stand, South Hall, 2nd Floor, Booth 14130, to benefit from the following special offer.

### RFIK Reversible Flow Indicator



- Measures flow, pressure & temperature
- Up to 50 gpm & 6000 psi
- Allows reverse flow
- Built-in INTERPASS safety discs make it ideal for testing valves, cylinders & pumps on mobile machinery

### HPM 400 Pressure Test Kit



- Complete test system for rapid pressure testing
- Kit contents:
  - 1 pc. HPM400 Handheld Digital Readout, 2 input, rechargeable battery.
  - 1 pc. PT630 pressure transducer, 9000 psi with integral 6 foot cable & M16x2 test connector.
  - 1 pc. 110 VAC battery recharger 1 pc carry case.

## Buy either for only \$799\*

\*Conditions: above offer is only valid on orders placed for a RFIK180-ASOT tester and or HPM400 kit part # FT9278 at IFPE Las Vegas; price excludes shipping & handling ex Webster Instruments, Milwaukee, WI.



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1290 E. Waterford Ave. Milwaukee, WI 53235

Tel: 414-769-6400 Fax: 414-769-6591

Email: sales@webster-inst.com

See us at: www.webster-inst.com



Certificate No.8242

Webster Instruments, a Division of Webtec Products reserve the right to make improvements and changes to the specification without notice.