



WEBTEC

WEBTEC PRODUCTS LIMITED

Digital Hydraulic Multimeter

**Measures Flow, Pressure,
Peak Pressure, Temperature,
Power and Volumetric Efficiency**



DHM 3 Series

**Another quality product from
the Webster range**

Simple to use portable

An easy to use range of portable testers for field and workshop testing of hydraulic systems.

The Webster range of testers have been designed to meet the needs of engineers in the diagnostic testing of hydraulic systems; they are the result of over 35 years experience in the fluid power industry.

The DHM '3' series can simultaneously measure flow, pressure, peak pressure and temperature.

Unique features include:

- Automatic calculation of hydraulic power and volumetric efficiency
- Bi-Directional loading valve for quick simulation of machine operating loads
- Built-in INTERPASS protection against pressure overload

All Webster testers are individually calibrated on test stands and all calibrations are traceable to National Standards.

Two models are available to meet individual testing requirements. Innovative design and attention to detail ensures a technically advanced and high quality product.

Benefits of Testing

The Webster hydraulic tester enables you to quickly pinpoint which component is malfunctioning and causing poor system performance. The problem could be internal leakage in the pump, motor or valve.

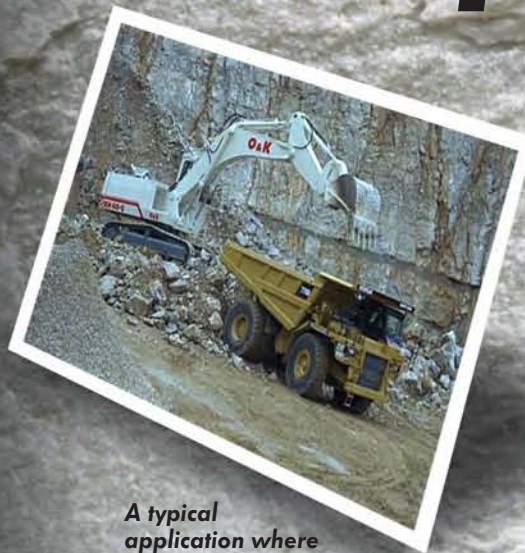
Measuring only the pressure means you can correctly set each valve and ensure that the machine is not being over-loaded. However you will need a flow meter to identify the suspect components.

Using a Webster tester you can quickly test a machine to identify a problem, thus eliminating guesswork. After completion of the repair you can easily re-test the machine.

The loading valve allows you to simulate the working conditions while in the workshop, making it far easier to run a test as you don't need to operate all the machine's functions.

Webster testers reduce down-time and save on labour. . .

. . .engineered to make testing of hydraulic machinery fast and convenient.



A typical application where a Webster tester would save you down-time

Bright LCD screen

The 4 x 12 cm screen has a wide viewing angle and can display 4 measurements simultaneously each with a 9mm letter height. Screen contrast can easily be adjusted using +/- buttons to aid viewing both indoors and outdoors

High accuracy

Accuracy is particularly important when measuring flow and pressure so that you can make the correct decision, whether you are testing at 30 or 300 lpm, at 40 or 400 bar. This is why the DHM incorporates a 12 bit micro-processor with the latest software linearisation to provide flow accuracy of 1% (IR) and pressure accuracy of 0.5% (FS). The DHM will even capture short pressure spikes, as it has a sample rate of 1 ms.

Safety disc storage

There is an integral storage compartment for spare safety discs at the back of the tester, to ensure they are always available should you ever need them.

. . .for mobile and industrial



Hydraulic testers. . .

"Every Webster digital tester has been designed and built to withstand today's rigorous working environment using tomorrow's technology."

Unique P-Q test facility

Measure pump volumetric efficiency at the push of a button.



Simple Push Button Control

The intuitive front panel design makes the DHM '3' series easy to use enabling you to (1) toggle between three display screens, (2) switch between measuring temperature and power, (3) clear pressure peaks and (4) change engineering units.

Battery Powered

All digital series testers are powered by a standard 9 Volt battery. An **AUTO-OFF** feature turns the tester off when not in use, saving battery life.

Bi-Directional Load Valve

A load valve allows you to simulate pressure on the hydraulic system without the need to operate all the machine functions in the workshop.

The pressure balanced design assures low handle effort and smooth operation over the entire flow and pressure range in either flow direction.

Unique "INTERPASS" Protection

Complete safety

Bi-Directional safety discs are built into the load valve. In the event of excess pressure in the hydraulic circuit, the discs rupture and oil is internally bypassed back to the tank, a feature unique to Webster testers. "INTERPASS" protects the hydraulic tester from being damaged as well as preventing oil spilling into the environment and onto the operator.

applications

PRODUCT SELECTOR

PORTABLE HYDRAULIC TESTERS

BI-DIRECTIONAL,
MODELS UP TO 800 lpm.
MEASURES FLOW, PRESSURE
AND TEMPERATURE

TAKE ADDITIONAL
MEASUREMENTS

YES

MEASURE SHAFT SPEED

NO

MEASURE PEAK PRESSURE,
POWER AND VOLUMETRIC
EFFICIENCY

SIMPLIFIED CONTROLS

NO

ANALOG DISPLAY OR
DIGITAL DISPLAY

YES

DIGITAL

ANALOGUE PRESSURE
2nd FLOW AND
TEMPERATURE

ALL DIGITAL DISPLAY

DIGITAL FLOW/TEMP & PRESS.

ANALOGUE

DIGITAL FLOW/TEMP & PRESS.



DHT
'1' SERIES



HT
'2' SERIES



DHT
'2' SERIES



DHM
'3' SERIES

Digital Hydraulic Multimeter



FLOW 313.6 LPM
PRESSURE 43.3 BAR
PEAK 386.4 BAR
TEMPERATURE 49 °C

313.6 LPM ██████
43.3 BAR ██████
386.4 BAR ██████
18.87 kW ██████

206.6 LPM ██████
348.9 BAR ██████
85% OF
243.5 LPM @ 17.3BAR

Flow and Pressure Ranges

Model Number	Flow range* (lpm)	Pressure* (bar)
DHM403	10 - 400	600
DHM803	20 - 800	600

*US versions available



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Webtec Products Limited reserve the right to make improvements and changes to the specification without notice.



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