

# DHCR Series

## Digital hydraulic readout

### For use with LT and LTR flow blocks

The DHCR Series Digital Tester with remote flow block accurately measures flow, pressure, temperature and speed. Our testers are designed for checking hydraulic pumps, motors, valves and hydrostatic transmissions.

This easy to use diagnostic unit can pin point hydraulic system faults, reduce downtime and help in preventative maintenance. Main hydraulic circuits, drain leakage flows and dual pumps can be measured simply at the turn of a switch.

The readout can be used in the most convenient position; for example, in the cab of a vehicle, with the flow blocks installed anywhere in the circuit.

The tester comprises a digital readout with two flow inputs and one flow block connected remotely by a 2 metre long cable and micro-bore hose assembly to the left hand side of the readout. An optional flow block can be connected via a cable to the front of the readout. Flow inputs can be easily calibrated by the operator to a wide range of our flow blocks. The readout is scaled in lpm, gpm, US gpm, selected by push button.

In addition to the range of flow blocks, other optional accessories include hoses, pressure loading valves and a phototachometer.



DHCR Digital Readout

Optional LTR flow block

Hydraulic measurement and control



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### Features

- **ACCURATE** measurement of flow, with automatic linearisation giving an accuracy of 1% of reading over a wide range.
- **INTERNAL** oil by-pass protects the system, tester and operator against over-pressure.
- **BI-DIRECTIONAL** for unrestricted connection and simplified testing up to 480 bar and 1500 lpm.
- **FAST** checks on pumps, motors, valves, cylinders and hydrostatic transmissions.
- **REMOTE INPUTS**
  - 2 - Flow and Temperature
  - 1 - Pressure
  - 1 - Speed
- **ECONOMICAL** low power consumption from standard battery. Automatic "Power Off" feature.
- **PORTABLE AND LIGHTWEIGHT** Aluminium and steel construction.
- **INFRA-RED PHOTOTACHOMETER** with 'On Target' Indicator.



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## Specifications

Model number	Max Pressure
DHCR-6	420 bar, 6000 psi
DHCR-7	480 bar, 7000 psi

## Functional specification

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### Operating specification for all parts

**Ambient temperature:** 15 to 40°C (59 to 104°F)

**Inputs:** 1 pressure, 1 speed, 2 flow and temperature

**Max pressure:** Model dependant see table above

**Engineering units:** (selectable)

Flow: lpm, US gpm, l gpm

Temperature: °C or °F

**Dimensions:** 200mm x 160mm x 90mm (7.8" x 6.3" x 3.5")

**Weight:** 2.6 kg (5.7 lbs)

**Construction material:** Case - Painted mild steel

**Seals:** Viton

## Operation

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DHCR Testers are microprocessor based instruments providing flexibility and high accuracy. Data presentation is by 8 digit liquid crystal display with 8 mm high characters.

Temperature is permanently displayed and flow input one or two or speed is selected by the rotary switch. The panel has a plastic membrane keypad and wipe clean sealed surface. The readout is programmed to refresh the display each second. "Fast" update, (1/3 second), can be selected to show changing flow conditions when testing relief valves, etc. Low power micro-circuitry minimizes battery consumption while the tester is working and switches off automatically one hour from the last operation. A standard 9 volt battery is available worldwide and gives typically 6 months normal testing.

### Calibration

The DHCR will accept the 'K factor' from all LT/LTR turbine blocks to provide a calibrated flow measurement system. If purchased with a flow block the unit will be configured with that flow block. All

units are calibrated with 21 csi oil as standard.

### Accessories

**LT:** range of turbine flow blocks - from 1 to 1500 lpm (0.25 - 400 USgpm) see separate bulletin

**LTR:** Range of turbine flow blocks with built in load valves - 8 to 800 lpm (2.5 - 210 USgpm) see separate bulletin

**Temperature:** built into the LT and LTR flow blocks above

**Speed sensors:** Phototachometer - TH3

**Cable and Hose:** three lengths 2, 4 or 6m

**Heavy duty carry Case**

Please contact sales office for full details