



WEBTEC

WEBTEC PRODUCTS LIMITED

**A Portable Data Logger
to suit a variety of
applications**

**Display, Datalog, Store and Print
Hydraulic Tests.**



**Another quality product from
the Webster range**

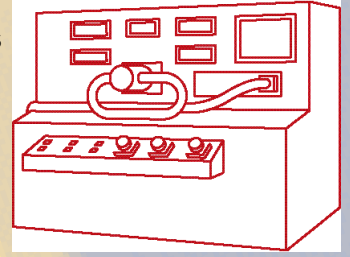
MC100-5 Data Logger

MC5E3

FEATURES

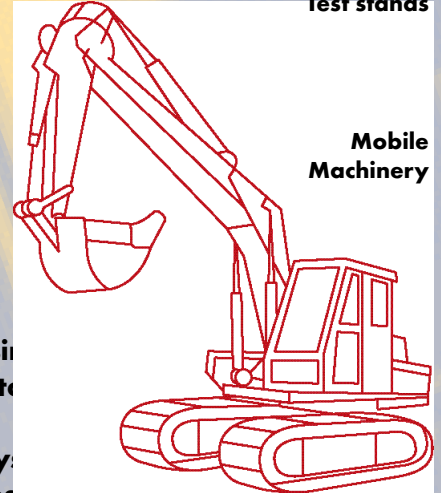
- Simultaneous display and recording of two flows, two pressures, two temperatures and two speeds.
- Displays two pressure peaks.
- Displays pressure differential.
- Displays two horsepower.
- Data logger stores 96,000 readings.
- Start data logger from keypad or trigger by flow or pressure level.
- On-Line data transfer direct to PC, provides real-time display.
- Built-in printer for instant print out of tests in graphical or alphanumeric form.
- Printout up to 78cms long.
- Enter customized test titles from keypad.
- Easy to use menu shows on screen for all calibration and input selections.
- Powered by rechargeable battery, with built-in charger.

The MC100-5 Readout/Data Logger and associated sensors are the basis of one of the most versatile test systems ever created; they make hydraulic field testing easy and quick and thus cost effective; and computer based technology makes the MC100-5 an advanced test stand or laboratory instrument.



Test stands

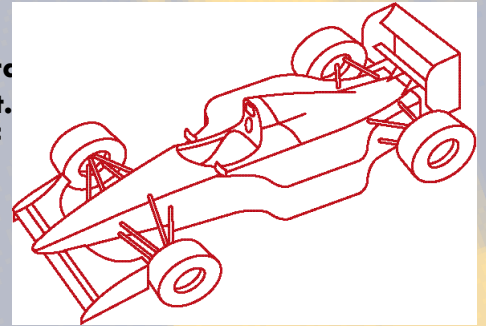
It offers simultaneous displays of two flows, two pressures, two speeds and two temperatures. On line communication direct to PC gives data logging, min/max and actual values on PC screen.



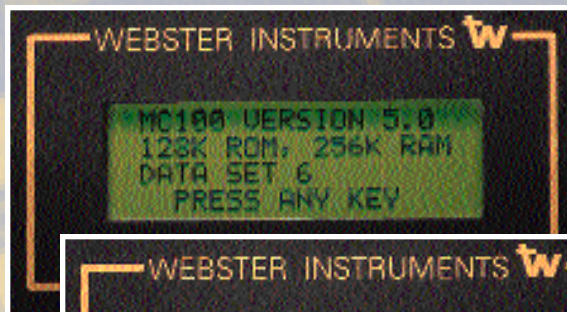
Mobile Machinery

Calibration for the various measuring sensors is achieved by simple keyboard entries. Test data for up to 96,000 readings in battery backed memory is available for later analysis. Immediate printing of flow and pressure curves.

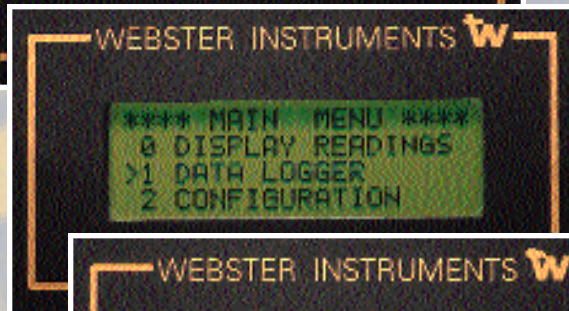
Webster testers... a complete range of hydraulic measuring equipment. Designed and engineered to make analysis of hydraulic system performance convenient and accurate.



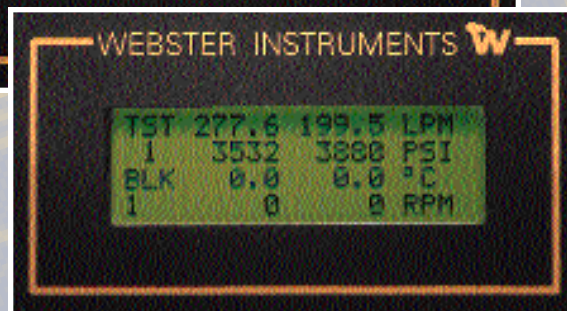
DISPLAYS . . .



ON SCREEN MENU
Makes the MC100-5 easy to use. Switch on, press any key.



SELECT
The simple steps shown on the screen menu.



RAPID DISPLAY
Shows simultaneously two flows, two pressures, two temperatures and two speeds.

LOGS . . .

4 MODES AVAILABLE:

1. Continuous Log for machine performance testing.

Accurately records data up to 9999 tests stored at maximum rate from all 8 channels (up to 48,000 or optional 96,000 readings).

2. Periodic Log for long duration tests.

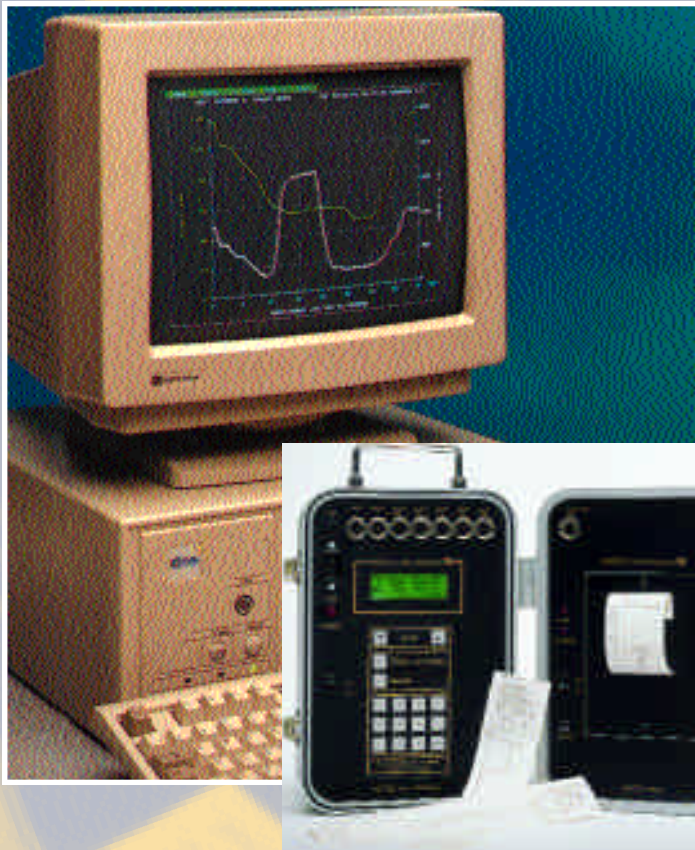
Continuously records data at pre-selected time intervals (1-600 seconds).

3. Keypress Log for specific system conditions.

Continuously displays the active channels and accurately records data each time a key is depressed.

4. Profile Log with Auto repeat for dynamic system testing.

Records from 100 to 2,000 readings from any two channels over a time span as low as one second and up to 300 seconds. Recording commences automatically each time a user-defined pressure or flow trigger level occurs or a key is depressed. Readings either side of the trigger point can be reviewed and printed in a number of curve formats.

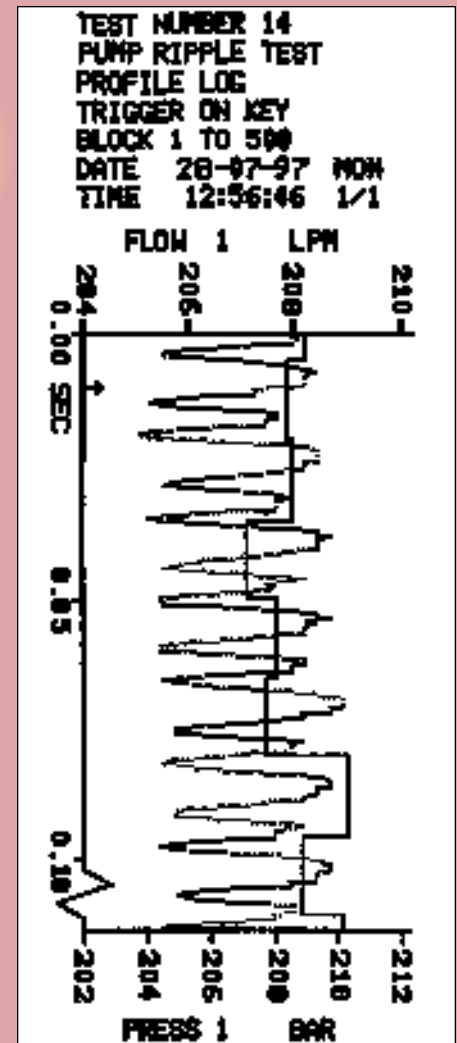


PRINTS . . .

Example

1

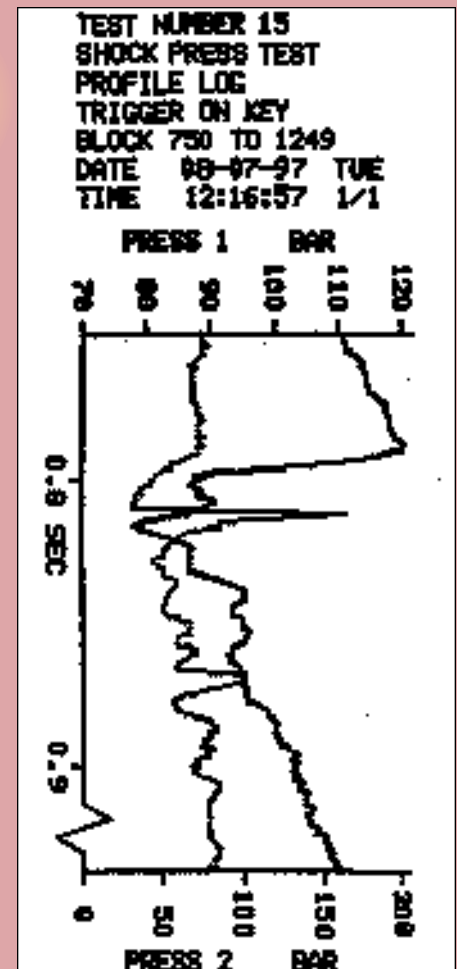
Part of a flow and pressure graph (actual size) showing ripple of each piston of a piston pump, 2000 readings in 1 second.
(Flow———Pressure.....)



Example

2

Part of a pressure test graph (actual size) showing system shock pressure, 2000 readings in 2 seconds.
(Pressure 1———Pressure 2.....)



COMMUNICATES . . .

The built-in printer and varied storage programs of the MC100-5 provide sufficient data processing abilities for most purposes. For enhanced data processing the MC100-5 has an RS232 communication port which enables transmission of data stored in memory or direct On-Line to PC, using WEBCOMM system software. This programme provides real-time data transfer, graph, bar graph, histogram and 25mm high character display. Data files are stored by test number and are easily compatible with many leading spreadsheet software packages.

MC100-5

The MC100-5 is supplied as a complete test system ready for use. There are no set-up problems.

- **Bi-Directional Flow Meters and Loading Valves.**
- **Fast response Pressure Transducers.**
- **Compatible with the complete range of Websters Sensors.**



A complete range of flow, pressure, temperature and speed sensors is available.

Full operating instructions are detailed in a manual supplied with each MC100-5 and WEBCOMM software.

A simulation disc is available which demonstrates all the functions of the MC100-5. Please enquire for your FREE copy.

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Quality Assured to ISO9001

PERFORMANCE DATA

DISPLAY AND RECORD 8 INPUTS

2 x flows 2 x pressures
2 x temperatures 2 x speeds
Edited test titles and report titles.

DISPLAY AND PRINT

2 x pressure peaks 1 x pressure differential
2 x horsepower

ACCURACY

Flow 1% of indicated reading
Pressure 0.5% of full scale
Pressure peaks 1 mSec peaks captured to 95% peak value
Temperature Within 1°C up to 150°C
Speed 1% of full scale

MEMORY

48,000 optional 96,000 measurements in up to 9,999 tests.

SCANNING RATE

Analog inputs 0.044 mS
Pulse inputs 160 mS multiple period

MINIMUM RECORDING TIME

Half millisecond per reading.

COMPUTER

128K RAM/optional 256K.
Baud rate: 19200 max. Real time clock.
RS232 communications port with user selected protocol.

PRINTER

Graphic and numeric 24 column dot matrix printer. Standard 58mm paper roll.

PRINTOUT

Any two graphs from eight inputs can be printed on same graph. Selectable scaling and graph printout up to 78cm long gives improved resolution.

DIMENSIONS

MC100-5 with printer.
303 x 202 x 126mm (closed),
303 x 404 x 63mm (open). Weight: 5.5kg.

SELECTABLE UNITS

Flow lpm, USgpm, UKgpm, %FSD
Pressure bar, psi, MPa, KGS, %FSD
Temperature °C or °F
Power KW and HP
Speed rpm

FULLY COMPATIBLE SENSORS & ACCESSORIES

PHOTO-TACHOMETER

TH 1A to check shaft rpm.

PRESSURE TRANSDUCERS LPT SERIES

Model	Pressure
LPT 40	40 bar
LPT 100	100 bar
LPT 250	250 bar
LPT 400	400 bar
LPT 600	600 bar

BI-DIRECTIONAL FLOW METERS

(temp. output is included with all these flow meters)

Without Load Valve

LT 5	0.1 - 5 lpm
LT 10	0.2 - 10 lpm
LT 20	0.3 - 20 lpm
LT 50	2 - 50 lpm
LT 125	4 - 125 lpm
LT 250	10 - 250 lpm
LT 400	15 - 400 lpm
LT 500	20 - 500 lpm
LT 750	25 - 800 lpm

With Load Valve

LT 250R	10 - 300 lpm
LT 400R	15 - 400 lpm
LT 750R	25 - 800 lpm

Order separate load valve HV100 for flow meters LT5 to LT125.

CABLES: 20' (6m) long

Flow/Temperature	FT 7950
Pressure	FT 7951
RS232	FT 7952



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