



**WEBTEC**

**WEBSTER INSTRUMENTS**

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

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



***Another quality product from  
the Webster range***

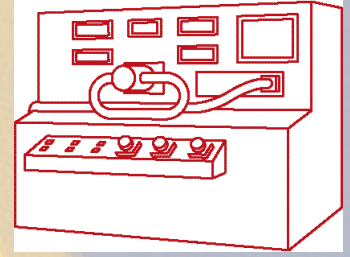
**MC100-5 Data Logger**

**MC5A3**

## FEATURES

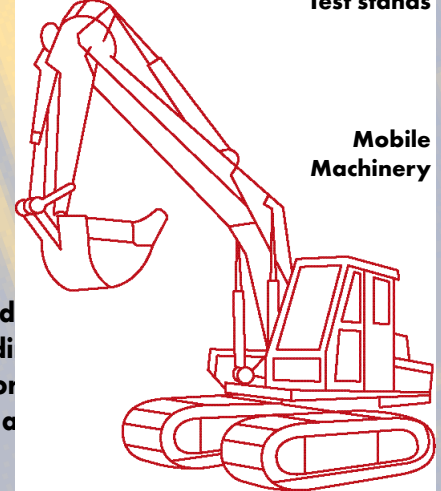
- Simultaneous display and recording of two flows, two pressures, two temperatures and two speeds.
- Displays two pressure peaks.
- Displays pressure differential.
- Displays two horsepower.
- Data logger stores 96,000 readings.
- Start data logger from keypad or trigger by flow or pressure level.
- 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 30 inches 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.

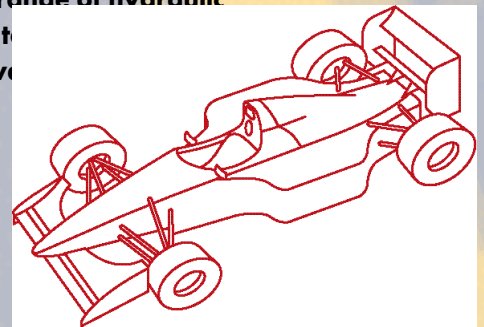


Mobile Machinery

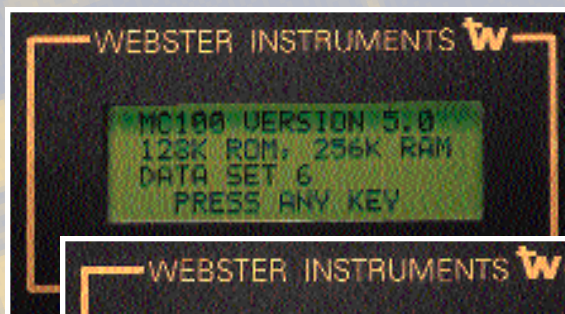
Calibration for the various measuring sensors is achieved by simple keyboard entries. Test data for up to 96,000 readings in battery backed memory is available for analysis or immediate printing of flow and pressure curves.

Webster Instruments – a complete range of hydraulic measuring equipment, engineered to test hydraulic system performance conveniently and accurately.

(\* see performance data overleaf)

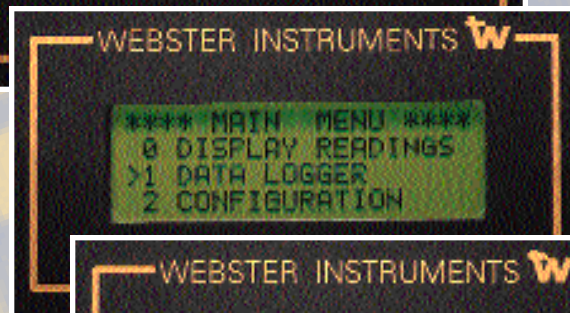


## DISPLAYS . . .



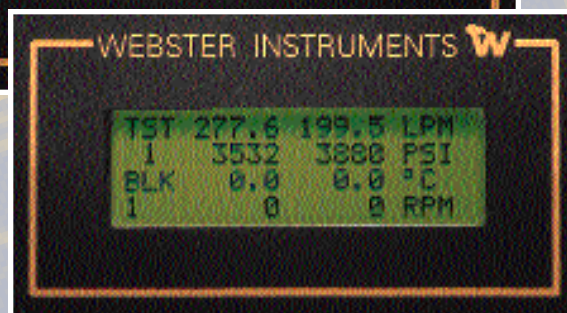
### ON SCREEN MENU

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.

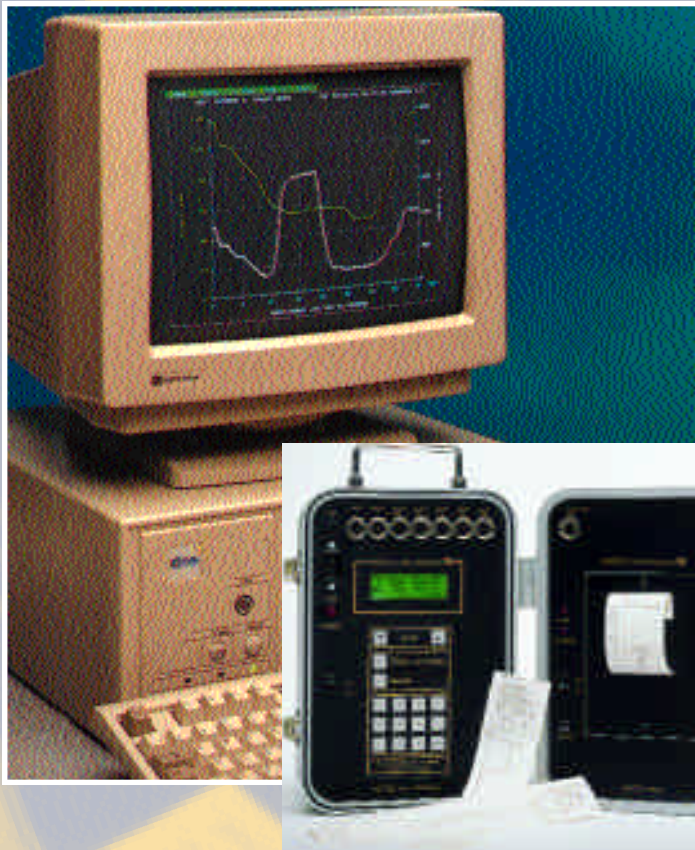
Continuously records data at pre-selected time intervals (1-600 seconds).

#### 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.

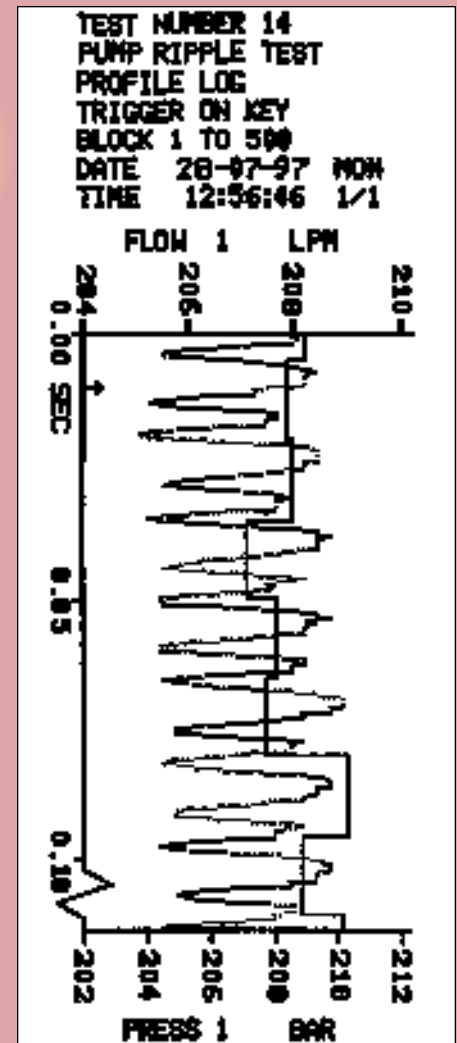


## PRINTS . . .

### Example

# 1

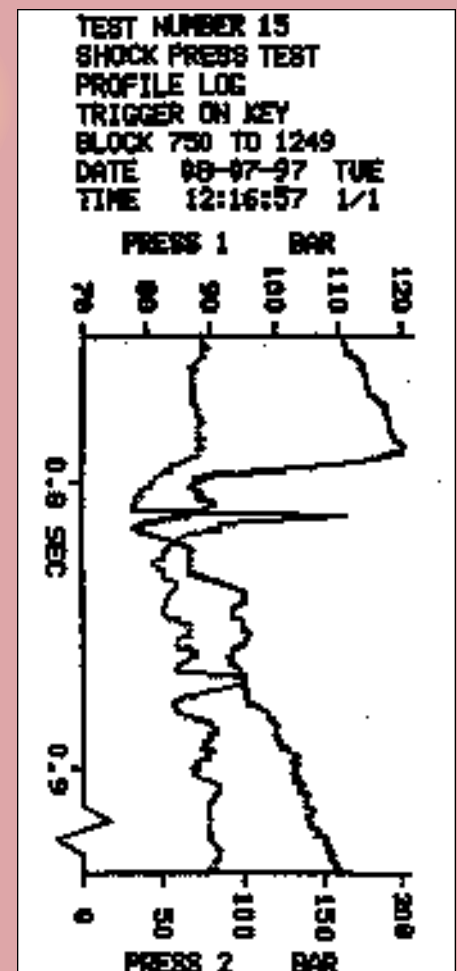
Part of a flow and pressure graph (actual size) showing ripple of each piston of a piston pump, 2000 readings in 1 second.  
(Flow———Pressure.....)



### 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 program provides real-time data transfer, graph, bar graph, histogram and 1 inch 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 Webster 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. Call

**Toll Free: US/Canada  
800-WEBTEST (932-8378)  
For your FREE copy.**

**WEBSTER INSTRUMENTS**



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 2.25 inch paper roll.

## PRINTOUT

Any two graphs from eight inputs can be printed on same graph. Selectable scaling and graph printout up to 30 inches long gives improved resolution.

## DIMENSIONS

MC100-5 with printer.  
12 x 8 x 5 inches closed,  
12 x 16 x 2.5 inches (open). Weight: 12 lbs.

## 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 600	600 PSI
LPT 1500	1500 PSI
LPT 3000	3000 PSI
LPT 6000	6000 PSI
LPT 7500	7500 PSI

## LPG Series

LPG 10K	10000 PSI
LPG 15K	15000 PSI
LPG 20K	20000 PSI

## BI-DIRECTIONAL FLOW METERS

(Temperature output includes)

### Without Load Valve

LT 5	0.03 - 2.5 GPM
LT 10	0.05 - 4.0 GPM
LT 20	0.06 - 5.0 GPM
LT 50	0.5 - 15 GPM
LT 125	1 - 30 GPM
LT 250	2 - 65 GPM
LT 400	3 - 100 GPM
LT 500	4 - 130 GPM
LT 750	6 - 170 GPM
LT 760	7 - 210 GPM

### With Load Valve

LT 250R	2 - 65 GPM
LT 400R	3 - 100 GPM
LT 750R	6 - 170 GPM
LT 760R	7 - 210 GPM

Order separate load valve HV100 for flow meters under 60 GPM.

Unidirectional Flow Meter (No temperature output)  
LTU 1350                      15 - 350 GPM



Represented by



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Webster Instruments reserve the right to make improvements and changes to the specification without notice.