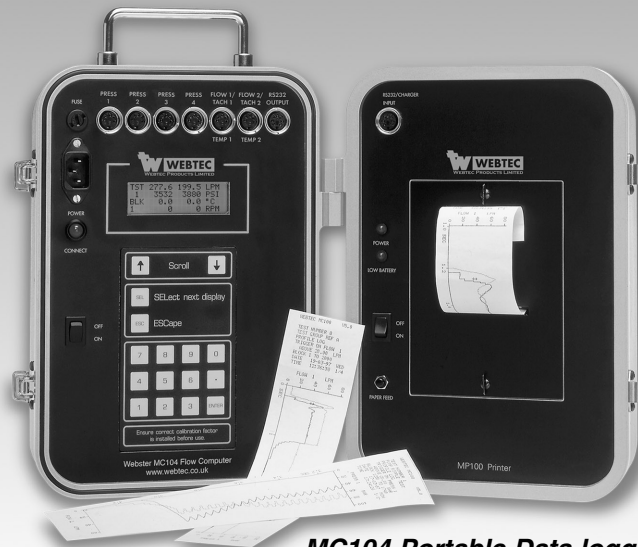


# MC104 Portable Hydraulic Data logger

## Display, store, datalog and print results

- 8 Inputs
- 4 Pressures
- 2 Flows or Speeds
- 2 Temperatures
  
- 8 Calculated channels
- 4 Peak Pressures
- 2 Differential Pressures
- 2 Power outputs



**MC104 Portable Data logger**

The MC104 portable hydraulic data logger builds on the tried and tested MC100 design. The MC104 can simultaneously display 4 pressures, 2 flows or speeds and 2 temperatures. In addition the user can display 4 peak pressures, 2 differential pressures and 2 hydraulic horsepower outputs (calculated from flow and pressure). Data can also be logged using any one of five modes giving the flexibility to record results at very high speed (2 channels every ½ ms) or over long periods (all channels every 300 sec) or anywhere in between. In addition you can also link the MC104 to your PC or laptop and graphically display the results. A large range of sensors can be connected to the MC104 and quickly configured using the menu-driven display with calibration printout in a few keystrokes. Up to 96,000 readings can be stored in battery-backed memory available for later analysis or immediate printing of flow and pressure curves using the MP100. Results can also be downloaded onto a PC or laptop via the RS232 port for later analysis, archiving and importing into all common spreadsheet programs.

### Features

- Menu driven with on-screen prompts
- Simultaneous display and recording of 4 pressures, 2 flow or speeds, 2 temperatures
- Display 4 peak pressures, 2 differential pressures, 2 hydraulic horsepower
- Five data logging modes
- Trigger tests automatically or on a key-press
- Test on-line to a PC with real-time display
- Stores 96,000 readings
- Built-in printer for instant print out of test results/ graphs
- Enter customised test titles from keypad or PC
- Quick to configure new sensors
- Rechargeable battery with built-in charger

***Another quality product from the Webster Range***

## Specifications

### Display and Record 8 Inputs

4 x pressures, 2 x flows or speeds  
2 x temperatures  
Edited test titles and report titles

### Display and Print

4 x peak pressures, 2 x differential pressures  
2 x power outputs

### Input connectors

5-pin amphenol for use with Webster sensors  
Pressure - 10 V supply  
Flow / speed - include 5 V supply, for powered transducers

### Accuracy

Flow 1% of indicated reading (automatic linearization)  
Pressure 0.5% of full scale  
Pressure peaks - 1 ms peaks captured to 95% peak value  
Temperature better than  $\pm 2$  °F up to 300 °F  
Speed  $\pm 0.25\% \pm 1$  digit

### Data logging modes

Continuous log - all active channels at user set rate  
Periodic log - all active channels from 1 to 300 seconds apart  
Log on keypress - all active channels on each key press  
Profile log - 1 or 2 channels, from 300 S to 0.5 mS  
Online log - all active channels via PC / laptop

### Memory & Battery

96,000 measurements in up to 9,999 tests.  
Rechargeable battery suitable for 16 hours use

### Minimum recording time

Half-millisecond per reading

### Scanning Rate

Analog inputs 0.044 ms  
Frequency Inputs: multiple period measurement

### Computer

256k RAM  
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" paper roll.

### Printout

Any two graphs from eight inputs can be printed on same graph. Selectable scaling and graph printout from 10 inches up to 31 inches long gives improved resolution.

### Dimensions

MC104 with printer  
12 x 8 x 5 inches (closed),  
12 x 16 x 2.5 inches (open). Weight: 12 lbs.

### Selectable Units

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

## Fully Compatible Sensors and Accessories

### Photo-Tachometer

TH1A & TH3IR .....  
to check shaft rpm  
supplied with 20 foot  
connecting cable



### Pressure Transducers LPT Series (use FT7951 connecting cable)

| Model No.       | Pressure |
|-----------------|----------|
| LPT600-P-N-MV   | 600 psi  |
| LPT1500-P-N-MV  | 1500 psi |
| LPT3000-P-N-MV  | 3000 psi |
| LPT6000-P-N-MV  | 6000 psi |
| LPT 7500-P-N-MV | 7500 psi |



### LPG Heavy Duty Series

|             |            |
|-------------|------------|
| LPG K6-MV   | 600 psi    |
| LPG1K5-MV   | 1,500 psi  |
| LPG 3K-MV   | 3,000 psi  |
| LPG 6K-MV   | 6,000 psi  |
| LPG 10 K-MV | 10,000 psi |
| LPG 15 K-MV | 15,000 psi |
| LPG 20 K-MV | 20,000 psi |

(other ranges available)

### Bi-Directional Flow Meters

(use FT8525 connecting cable)  
(temp. output is included with all these flow meters)

| Without Load Valve ..... |     |                          |
|--------------------------|-----|--------------------------|
| LT 5                     | .03 | 1.5 gpm                  |
| LT 16                    | .02 | 4 gpm                    |
| LT 50                    | .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                  |
| LTU1350                  | 10  | 350 gpm (no temp output) |



| With Load Valve ..... |   |         |
|-----------------------|---|---------|
| LT 250R               | 2 | 65 gpm  |
| LT 400R               | 3 | 100 gpm |
| LT 750R               | 6 | 170 gpm |
| LT 760R               | 7 | 210 gpm |
| LT800R-HP             | 8 | 210 gpm |



Flow meters available with powered transducers for extended low range. Order separate load valve HV100 for flow meters LT5 to LT125.

Heavy duty carry case for complete systems also available.

### Cables: 20' (6m) long

|                       |           |
|-----------------------|-----------|
| Flow/Temperature      | FT 8525-6 |
| Pressure              | FT 7951-6 |
| RS232 (10ft/3 m long) | FT 7952-3 |



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