

MC104 Portable Hydraulic Data logger

Display, store, datalog and print results

8 inputs
4 Pressures
2 Flows / 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 / speeds and 2 temperatures. In addition the user can display 4 peak pressures, 2 differential pressures and 2 power 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. 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 / speeds, 2 temps
- Display 4 peak pressures, 2 differential pressures, 2 power outputs
- 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
- 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 / 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
Pressure 0.5% of full scale
Pressure peaks - 1 ms peaks captured to 95% peak value
Temperature better than ± 1 °C up to 150 °C
Speed $\pm 0.25\%$ ± 1 digit

Data logging modes

Continuous log - all channels as fast as possible
Periodic log - all channels up to 300 seconds apart
Log on keypress - all channels on a key press
Profile log - up to 2 channels, up to 2000 blocks every $\frac{1}{2}$ ms
Online log - all channels via PC / laptop

Memory & Battery

96,000 measurements in up to 9,999 tests
Rechargeable battery suitable for at least 16 hours continuous use, *110/220 V AC rechargeable (*Must be specified at time of purchase)

Minimum recording time

Half-millisecond per reading

Scanning Rate

Analogue inputs 0.044 ms
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 58 mm 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

MC104 with printer
303 x 202 x 126 mm (closed),
303 x 404 x 63 mm (open). Weight: 5.5 kg.

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 and Accessories

Photo-Tachometer

TH1A & TH3IR
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



Compatible with flow meters fitted with powered transducers

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

CABLES: 20' (6m) long

Flow/Temperature	FT 8525
Pressure	FT 7951
RS232	FT 7952



Certificate No. 8242