

HDL-240 Compact data logger



Brand: Magneti Marelli
Product Code: HDL-240
Availability: 7 Days
Weight: 1.00kg
Dimensions: 30.00cm x 20.00cm x 10.00cm

Price: \$4,675.00

Short Description

HDL-240 Compact data logger with an extensive set of inputs-outputs and up to 32gb of data logging memory.

Description

HDL-240 is the evolution of Magneti Marelli's successful data logger line offering increased logging performance (data throughput and number of channels) in a smaller, lighter package.

HDL-240 is designed to provide an all-round data logging capability and can operate both in stand-alone mode and as an expansion to the new racing dashboard family (FBO).

This versatile data acquisition unit is specifically developed for racing applications which require high resolution data from a large number of channels, either coming from internal measurements or via CAN or Ethernet lines. HDL-240 deploys a modern high-performance, low consumption 32-bit CPU, with a computational power of over 200 DMIPS and hardware floating-point support.

Two convenient bi-colour LEDs show logger status/ diagnostic information at a glance (powered, logging, etc.).

Benefits

- Data download via Ethernet link
- Upgrades HRDL and HFD loggers with no loom changes
- SW selectable NTC/PT1000 temperature sensor
- SW selectable VRS, Hall or Rate sensor
- Hardware accelerated floating point arithmetic
- Integrates seamlessly with Marelli dashboard displays
- Pick-up inputs for wheel speed and distance measurement
- Compact and robust design, easy to install

Main Features

- 16 Single-ended @12bit / 2kHz sampling (*)
- 4 Differential @12bit / gain 100
- 2 Thermocouple @12bit
- 4 Temperature (PT1000/NTC)
- 2 Pick-ups, Hall effect or Rate sensor
- 4 Hall effect or Rate sensor
- 32 GByte internal disk for data recording
- Data recording on USB pendrive
- 1024 logged channels
- 200 kByte/s logging rate
- Sampling rates up to 2000 Hz

- 2x CAN 2.0B communication buses
- 4x Ethernet 100 Mbit/s lines
- Tri-axial 16g accelerometer
- 2x green/red LEDs on top for visible logger status feedback
- Fully supported by SYSMA setup tool and WinTAX4 data analysis tool

(*) option for higher rates, please contact us.

Technical Details

Inputs

Analogue Single-ended (12 bit) 16

Differential (12 bit, gain 100) 4

K-type thermocouple (12 bit) 2

NTC/PT1000 temperature sensor (SW selectable) 4

Internal temperature 1

VRS Pick-up, Hall or Rate sensor (SW selectable) 2

Hall effect or Rate sensor (SW selectable) 4

Lap trigger pull-up/pull-down (SW selectable) 2

“Code Load” enable pin 1

Outputs

Voltage references (5.0V 70 mA max) 4

Half-bridge/high-side/low-side outputs (5A max total continuous; full-bridge mode available) 4

