



VI INTERNATIONAL COMPETITION 2019 - 2020



OFFICIAL TECHNICAL SPONSOR

TECHNICAL SPECS



VI MOTOSTUDENT INTERNATIONAL COMPETITION

2019-2020

OFFICIAL TECHNICAL SPONSOR: AIM

AIM, through its Official Technical Service Data Box joins the VI MotoStudent International Competition 2019 - 2020 as Official Technical Sponsor for the all MotoStudent teams.



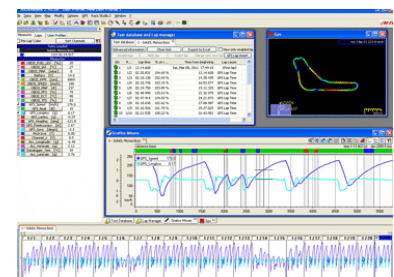
data box
ELECTRONIC RACING SYSTEMS

AIM ELECTRONICS RACING SYSTEMS

AIM, established in 1976, is today a world leader in Data Acquisition for Racing applications. Its Official Technical Service Data Box has developed two specific kits focused on the needs of the MotoStudent teams:

- MotoStudent Petrol Basic Kit: The base kit that will help MotoStudent teams to develop the prototype and achieve the optimum setup for the MS2 Phase Tests.
- MotoStudent Petrol Advanced Kit: A highest performance step to get a total parametrization of the motorbike.
- MotoStudent Electric Basic Kit: Specific system conceived for the monitoring of the electric propulsion system and basic dynamics of the motorbike. This system combines both CAN and digital inputs for a complete parametrization.
- MotoStudent Electric Advanced Kit: The top-level Kit for MotoStudent Electric teams, combining the data acquisition of the electric propulsion system with the dynamic parametrization of the motorbike.

All the Kits are available for extension with a great range of AiM sensors and devices.



AIM DATA RECORDING MOTOSTUDENT PETROL BASIC KIT

MyChron 5

Dash - Data Acquisition. MyChron 5 includes a lithium battery with the possibility to connect to an external power supply. Includes RPM sensor, engine temperature sensor and lap time (GPS).

The main data recorded are speed by GPS, layout, gyro (3 axis), accelerometer (3 axis), rpm, engine temperature...

Download is made by WiFi through Race Studio 3 Software.



MyChron Expansion

The MyChron Expansion for MyChron 5 allows to connect a wide range of sensors like pressure sensors, potentiometers (not suspension), speed sensors, temperature... It allows to connect 4 analogic inputs or 3 analogic inputs + 1 digital. Sampling rate is 10 Hz.



Lambda CAN

The AIM Lambda Sensor records the engine carburation in every moment, in order to adjust the air/fuel ratio with the maximum efficiency.



"T" Adaptor for Engine Temperature Sensor

Adaptor to install a temperature sensor. It must be installed in the middle of the refrigeration hoses. The available connections are 15 or 20mm diameter, depending of the hoses installed.



Signal Sensor Adaptor (Metallic Connector)

Adaptor to get the signal of every sensor already installed on the motorbike.



AIM DATA RECORDING MOTOSTUDENT PETROL ADVANCED KIT

MXM

Data Acquisition. To be connected to an external power supply. It includes rpm sensor, GPS, Lap Time (beacon and GPS) and CAN BUS connection.

Sensors can be connected to 4 analogic channels + RPM input + 2 digital channels + 2 power outputs up to 15A. Non-amplifiable system, possibility of sensor and sampling rate tune up.

Download is made by WiFi through Race Studio 3 Software.



Lambda CAN

The AIM Lambda Sensor records the engine carburation in every moment, in order to adjust the air/fuel ratio with the maximum efficiency.



Suspension Sensors

The stroke of the sensors can be 150 or 75mm. Connectors to the logger are included.



Engine Temperature Sensor

PT100 termo-resistance. Connectors included in the kit.



"T" Adaptor for Engine Temperature Sensor

Adaptor to install a temperature sensor. It must be installed in the middle of the refrigeration hoses. The available connections are 15 or 20mm diameter, depending of the hoses installed.



Signal Sensor Adaptor (Plastic Connector)

Adaptor to get the signal of every sensor already installed on the motorbike.



AIM DATA RECORDING MOTOSTUDENT ELECTRIC BASIC KIT

MXM

Data Acquisition. To be connected to an external power supply. It includes rpm sensor, GPS, Lap Time (beacon and GPS) and CAN BUS connection.

Sensors can be connected to 4 analogic channels + RPM input + 2 digital channels + 2 power outputs up to 15A. Non-amplifiable system, possibility of sensor and sampling rate tune up.

Download is made by WiFi through Race Studio 3 Software.

CAN protocol 100% configurable, adaptable for any necessity.



AIM DATA RECORDING MOTOSTUDENT ELECTRIC ADVANCED KIT

MXM

Data Acquisition. To be connected to an external power supply. It includes rpm sensor, GPS, Lap Time (beacon and GPS) and CAN BUS connection.

Sensors can be connected to 4 analogic channels + RPM input + 2 digital channels + 2 power outputs up to 15A. Non-amplifiable system, possibility of sensor and sampling rate tune up.

Download is made by WiFi through Race Studio 3 Software.



Suspension Sensors

The stroke of the sensors can be 150 or 75mm. Connectors to the logger are included.



Motor Temperature Sensor

It is a PT100 termo-resistance. Extension is included in the kit.



"T" Adaptor for Motor Temperature Sensor

Adaptor to install a temperature sensor. It must be installed in the middle of the refrigeration hoses. The available connections are 15 or 20mm diameter, depending of the hoses installed.



For orders:

1. You must complete the Excel file "Data Box Parts Request" and send it to shop@motostudent.com
2. You will receive a proforma invoice with the fee to complete the process.
3. Once the payment is completed, the order will be done and you will receive the Kit at your facilities.

For technical questions:

All technical questions about the AiM MotoStudent Kit must be directed to the Data Box Technical Department - info@databox.es

www.motostudent.com

FOR MOTOSTUDENT USE ONLY

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