AiM Infotech

SYBELE COMMANDER44

Release 1.00

INTRODUCTION

AIM has developed special applications for many of the most common ECUs: by special applications we mean user-friendly systems which allow to easily connect your ECU to our hi-tech data loggers: user need only to install harness between the **logger** and the ECU.

Once connected, the logger displays (and/or records, depending on the logger and on the ECU data stream) values like RPM, engine load, throttle position (TPS), air and water temperatures, battery voltage, speed, gear, lambda value (air/fuel ratio), analog channels..

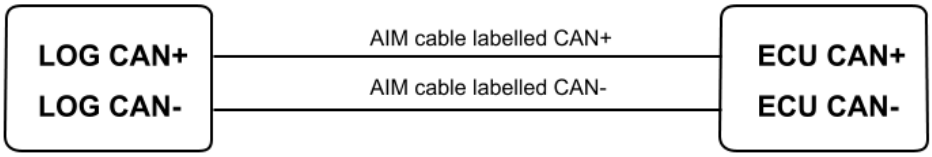
All AIM loggers include – free of charge – **Race Studio 2** software, a powerful tool to configure the system and analyze recorded data on your PC.

Warning: once the ECU is connected to the logger, it is necessary to set it in the logger configuration in Race Studio 2 software.
Select Manufacturer "Sybele" Model "Commander44".
Refer to Race Studio Configuration user manual for further information concerning the loggers configuration.

Warning: it is strongly recommended to always verify whether the ECU needs specific software settings to export data.

1 – CAN Communication Setup

Sybele Commander44 (ECU) is equipped with a CAN communication protocol used to communicate parameters to a data logger. Here below is the CAN communication setup.



2 – Connection to AIM loggers

To connect Sybele Commander44 to AIM loggers connect:

- AIM cable labelled CAN+ to pin 16 of the ECU connector;
- AIM cable labelled CAN- to pin 44 of the ECU connector

3 – Communication protocol

Channels received by AIM loggers connected to Sybele Commander44 are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	Rpm value
ECU_2	TPS	Throttle position sensor
ECU_3	MAP	Manifold air pressure
ECU_4	VBATT	Battery Voltage
ECU_5	AFR	Air Flow Ratio
ECU_6	ENGINE_TEMP	Engine temperature
ECU_7	AIR_TEMP	Air temperature
ECU_8	ATM_PRESS	Atmospheric pressure
ECU_9	GEAR	Gear number
ECU_10	INJ_TIME	Injection time
ECU_11	ADVANTAGE	Advantage
ECU_12	COEXCOR_LAMBDA	Lambda Correction Coefficient
ECU_13	TURBO_PRESS	Turbo pressure
ECU_14	POS_ELECT_TURBO	Electric Turbo Position
ECU_15	TPS_ELECT	Electric Throttle Position Sensor
ECU_16	RICH	Carburation Setting
ECU_17	DEBIM	Manifold Air Flow
ECU_18	FUEL_TEMP	Fuel Temperature
ECU_19	FUEL_PRESS_BAR	Fuel Barometric Pressure
ECU_20	ENG_OIL_TEMP	Engine Oil Temperature
ECU_21	ENG_OIL_PRESS	Engine Oil Pressure