AIM Infotech

Ducati Multistrada 1200

Release 1.02

ECU

1 Bike years

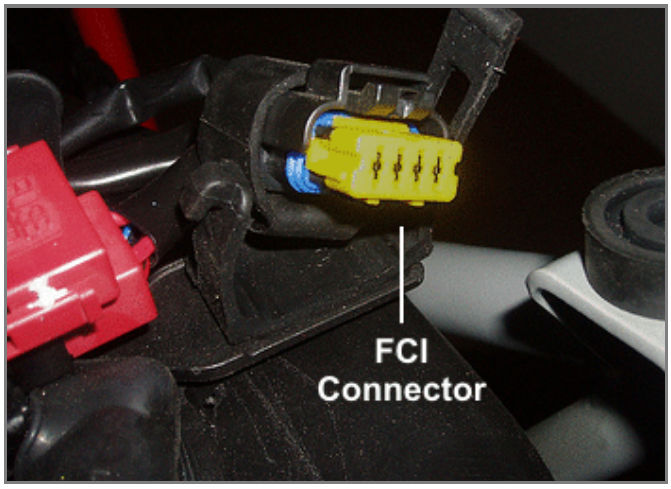
This tutorial describes how to connect Ducati bikes to AiM devices. Supported years and models are :

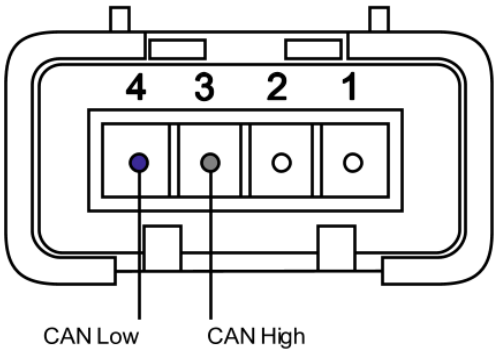
- Multistrada 1200 2010-2011

Warning: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech srl will not be held responsible for any consequences that may result from the replacement of the original instrumentation cluster.

2 CAN bus connection

Ducati Multistrada 1200 features a bus communication protocol based on CAN on the FCI connector placed under the bike seat and shown here below on the left; on the right is connector pinout.





3
Configuration with Race Studio 2

Before connecting the ECU to AiM device set this up using Race Studio 2 software. The parameters to select in the device configuration are:

- ECU manufacturer: “Ducati”
- ECU Model: “Multistrada_1200”

4
Available channels

Channels received by AIM devices connected to "Ducati" "Hypermotard" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	MU_RPM	RPM
ECU_2	MU_SPEED	Vehicle speed
ECU_3	MU_TPS_HAND	Manual Throttle position sensor
ECU_4	MU_TPS1	Throttle position sensor 1
ECU_5	MU_TPS2	Throttle position sensor 2
ECU_6	MU_WATER_T	Engine cooling temperature
ECU_7	MU_INTK_AIR_T	Intake air temperature
ECU_8	MU_AMBIENT_T	Ambient temperature
ECU_9	MU_BATTERY	Battery supply
ECU_10	MU_BRAKE_SW	Brake switch
ECU_11	MU_CLUTCH_SW	Clutch switch
ECU_12	MU_GEAR	Engaged gear
ECU_13	MU_NEUTRAL_SW	Neutral switch
ECU_14	MU_OILP_SW	Oil pressure switch
ECU_15	MU_TURN_RIGHT	Right turn indicator
ECU_16	MU_TURN_LEFT	Left turn indicator

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.