

AiM InfoTech

DUCATI
Panigale V2 and V4 Euro5
from 2020

Release 1.00



ECU





1

Models and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.

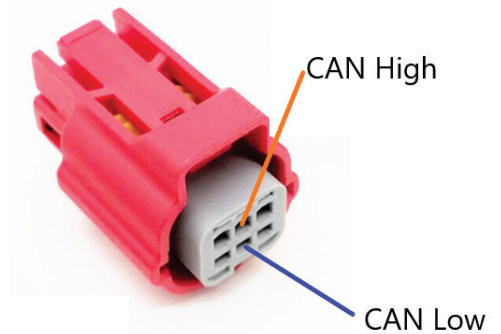
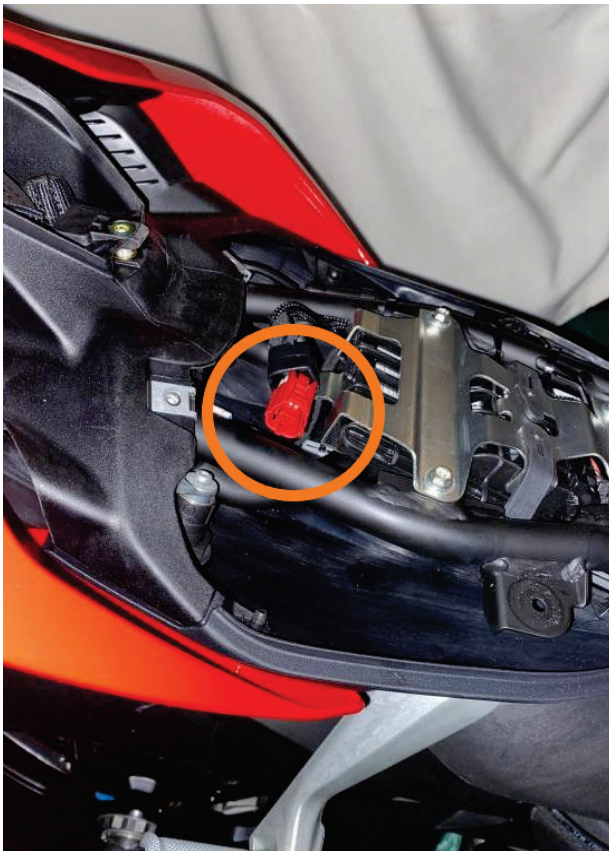
Supported models and years are:

- Ducati – Panigale V2 from 2020
- Ducati – Panigale V4 (only Euro5 models) from 2021

Warning: for these models/years AiM recommends not to remove the stock dash, doing so will disable some of the bike's 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 Wiring connection

Ducati Panigale V2 and V4 are equipped with a bus communication protocol based on CAN that can be accessed through the standard OBDII Euro5 red connector you can find under the bike seat.



JST red connector

- 2
- 3
- 4
- 5

Function
CAN High
Ground
Voltage Battery
CAN Low

AiM cable

- CAN+
- GND
- V Battery
- CAN-

AiM color cable

- White
- Black
- Red
- Blue

For the following devices, AiM supplies a dedicated cable (AiM part number):

- Solo 2DL Cable length 1600 mm "V02589130"
- EVO 4S Cable length 400 mm "V02585200"

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Race Studio configuration

Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **DUCATI**
- ECU Model: **PANIGALE V4 (RS3 Only)**

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"DUCATI – PANIGALE V4" protocol

Channels received by AiM devices configured with "DUCATI – PANIGALE V4" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
Gear	Engaged gear
Speed Rear	Rear wheel speed
Speed Front	Front wheel speed
Lon Acc	Longitudinal acceleration
Lat Acc	Lateral acceleration
Roll Rate	Roll rate
Pitch Rate	Pitch rate
Yaw Rate	Yaw rate
Engine Temp	Engine temperature
Intake Temp	Intake air temperature
TPS Vert	Vertical throttle position sensor
TPS Hor	Horizontal throttle position sensor
Bike Angle	Bike angle
Brake Front	Front brake pressure
Twist grip	Hand throttle position



Battery Volt	Battery voltage
ShiftSw	Shift switch
Trq Slow	Torque slow
Trq Fast	Torque fast
EBC ON	Engine brake control ON
EBC Lv	Engine brake control level
DWC OFF	Ducati wheelie control OFF
DWC Lv	Ducati wheelie control level
DTC OFF	Ducati traction control OFF
DTC Lv	Ducati traction control level
DSC OFF	Ducati slip control OFF
DSC Lv	Ducati slip control level
EngineStatus	Engine status
Eng St	Engine status
Brake Switch	Brake switch

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