

AiM Infotech

Ducati Panigale V4 from 2018

Release 1.00



1

Bike years and models

This tutorial explains how to connect Ducati Panigale V4 ECU to AiM devices. Supported models and years are:

- Ducati Panigale V4 from 2018

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

CAN bus connection

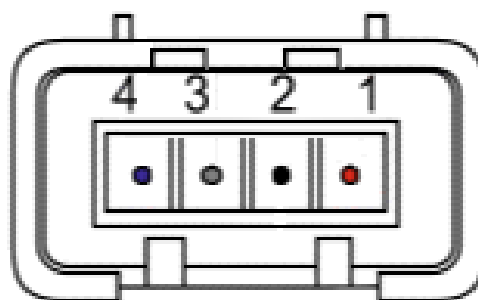
Ducati Panigale V4 is equipped with a bus communication protocol based on CAN that can be accessed through the DDA connector you find under the bike tail.

2.1

Ducati Panigale V4 CAN connection

Ducati Panigale V4 models are equipped with a 4 ways DDA connector.

Below is indicated its pinout (rear view) and connection table.



DDA connector pin	Pin function	Ducati cable colour	AiM cable label
1	+12V	Red/Yellow	9-15 VDC
2	GND	Black/Blue	GND
3	CAN High	Green/Black	CAN+
4	CAN Low	White/Green	CAN-

3

Configuration with Race Studio 3

Before connecting the ECU to AiM device set this up using AiM Race Studio 3 software. The parameters to select in the device configuration are:

- ECU manufacturer "Ducati"
- ECU Model "PANIGALE V4"

4

"Ducati – PANIGALE V4" protocol

Channels received by AiM devices connected to "Ducati – PANIGALE V4" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Gear	Engaged gear
ShiftSw	Shift switch
Brake Front	Front hand brake position
Brake Switch	Brake switch
Twist grip	Hand throttle position
Engine temp	Engine coolant temperature
Intake Temp	Intake air temperature
Speed Rear	Rear wheel speed
Speed Front	Front wheel speed
Lon Acc	Longitudinal accelerometer
Lat Acc	Lateral accelerometer
Roll Rate	Roll rate
Pitch Rate	Pitch rate
Yaw Rate	Yaw rate



Bike Angle	Bike lean angle
Battery Volt	Battery voltage
EBC ON	Engine brake control ON
EBC Lv	Engine brake 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

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.