

AiM Infotech

Ducati Panigale  
899, 959, 1199, 1199R and  
1299

Release 1.03

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**PANIGALE**





# 1

## Models and years

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This user guide explains how to connect Ducati Panigale bikes to AiM devices. Supported models and years are:

- |                   |           |
|-------------------|-----------|
| • 899 Panigale    | 2013-2015 |
| • 959 Panigale    | from 2016 |
| • 1199 Panigale   | 2012-2014 |
| • 1199 R Panigale | 2015-2017 |
| • 1299 Panigale   | 2015-2019 |

**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.

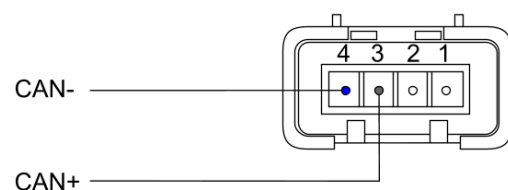
## 2 Connection

These bike models feature a bus communication protocol based on CAN, accessible through the DDA connector placed under the bike tail. For this installation refer to the following pinout of the DDA (vehicle connector – rear view).

Here below the DDA connector pinout is shown as well as connection table.



4 pins FCI 4 male  
connector pinout  
contact insertion view



DDA connector pin	Pin function	AiM cable label
3	CAN High	CAN+
4	CAN Low	CAN-

### 3

## Race Studio configuration

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

- ECU Manufacturer: **Ducati**
- ECU Model:
  - **Panigale** for Ducati 899 Panigale and 1199 Panigale
  - **1299** for Ducati 959, Ducati 1199R Panigale and 1299 Panigale

## 4

# Ducati protocols

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Channels received by AiM devices connected to Ducati Panigale bikes change according to the selected protocol.

## 4.1

# "Ducati – Panigale" protocol

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

CHANNEL NAME	FUNCTION
ECU RPM	RPM
ECU SPD REAR	Rear speed
ECU TPS1 ENG	Throttle position cylinder 1
ECU TPS2 ENG	Throttle position cylinder 2
ECU TPS HAND	Manual throttle
ECU WATER T	Engine coolant temperature
ECU SPD FRONT	Front speed
ECU INT AIR TEMP	Intake air temperature
ECU BATTERY	Battery supply
ECU BRAKE SW	Brake switch
ECU CLUTCH SW	Clutch switch
ECU NEUTRAL SW	Neutral switch
ECU OILP SW	Oil pressure switch
ECU TURN RIGHT	Right turn indicator
ECU TURN LEFT	Left turn indicator
ECU SW ENG MAP	Engine MAP selector
ECU SW BEAM	High beam switch
ECU BARO	Barometric pressure



ECU LAMB H	Horizontal cylinder lambda value
ECU LAMB TMP H	Horizontal cylinder lambda temperature
ECU DIAG H	Horizontal cylinder lambda diagnosis
ECU LAMB V	Vertical cylinder lambda value
ECU LAMB TEMP V	Vertical cylinder lambda temperature
ECU DIAG V	Vertical cylinder lambda diagnosis
ECU BRK FRONT	Front brake pressure
ECU BRK REAR	Rear brake pressure
ECU DTC RDC	Ducati traction control intervention
ECU DTC PERC	Ducati traction control percentage
ECU GEAR	Engaged gear
ECU DTC LEV	Ducati traction control level
ECU MAP SELCT	Map selection

**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.

## 4.2

### "Ducati – 1299" protocol

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Channels received by AiM devices connected to "Ducati – 1299" protocol are:

CHANNEL NAME	FUNCTION
ECU RPM	RPM
ECU SPD REAR	Rear wheel speed sensor
ECU TPS1 ENG	Throttle position cylinder 1
ECU TPS2_ENG	Throttle position cylinder 2
ECU TPS HAND	Manual throttle
ECU WATER T	Engine coolant temperature
ECU SPD FRONT	Front speed
ECU INT AIR TEMP	Intake air temperature
ECU BATTERY	Battery supply
ECU TPS_TARG	Throttle position sensor target value
ECU CLUTCH SW	Clutch switch
ECU GEAR	Engaged gear
ECU OILP SW	Oil pressure switch
ECU BARO	Barometric pressure
ECU LAMB H	Horizontal cylinder lambda value
ECU LAMB TMP H	Horizontal cylinder lambda temperature
ECU DIAG H	Horizontal cylinder lambda diagnosis
ECU LAMB_V	Vertical cylinder lambda value
ECU LAMB TEMP V	Vertical cylinder lambda temperature
ECU DIAG V	Vertical cylinder lambda diagnosis

**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.