

AiM User Guide

Solo 2/Solo 2 DL, EVO4S and
ECULog kit for Ducati
Panigale V2 and V4 "Euro5"

Release 1.01



PANIGALE





1

Models and years

This manual explains how to connect Solo 2 DL, EVO4S and ECULog to the bike engine control unit (ECU).

Compatible models and years are:

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

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 consequence that may result from the replacement of the original instrumentation cluster.

2

Kit content and part numbers

AiM developed a specific installation bracket for Solo 2/Solo 2 DL and specific connection cables to the ECU for Solo 2 DL, EVO4S and ECULog.

2.1

Bracket for Solo 2/Solo 2 DL

Part number of Solo 2/Solo 2 DL installation bracket for Ducati Panigale V2 and V4 (Euro5 models only) – shown below – is: **X46KSTSDP**.

Installation kit contains:

- 1 bracket (1)
- 2 Allen screws with flat head M4x10mm (2)
- 1 washer (3)
- 1 rawl nut (4)
- 1 Allen screw with rounded head M8x45mm (5)



2.2

AiM cable for SOLO 2 DL

Part number of Solo 2 DL connection cable for Ducati Panigale V2 and V4 (Euro5 models only) – shown below – is: **V02589130**.



Following image shows the cable constructive scheme.



2.3

AiM kit for Solo 2 DL (CAN cable + bracket)

Connection cable for Solo 2 DL and installation bracket can also be bought together with part number: **V02589130CS**.

2.4

AiM cable for EVO4S and ECULog

Part number of EVO4S and ECULog connection cable for Ducati Panigale V2 and V4 (Euro5 models only) – shown below – is:

V02585200.



The image below shows the cable constructive scheme.



3

Solo 2 DL, EVO4S and ECULog connection

To connect Solo 2 DL, EVO4S and ECULog to the bike ECU use the standard OBDII Euro 5 red connector placed under the bike seat and shown here below.

Open the bike seat and remove the cap from the red connector (shown on the right), then plug the specific AiM cable.



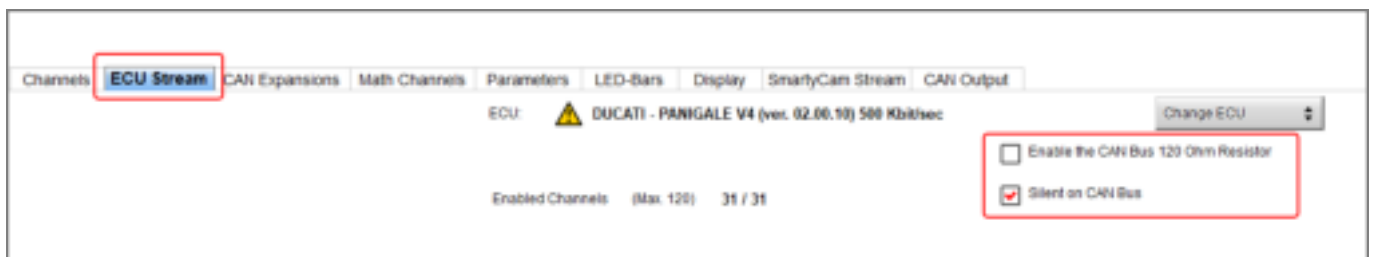
4

Configuration with RaceStudio 3

Before connecting AiM devices to the bike ECU, set all functions using RaceStudio 3 software. The parameters to set in the device configuration ("ECU Stream" tab) are:

- ECU Manufacturer: **DUCATI**
- ECU Model: **PANIGALE V4** (RaceStudio3 only)

After this first selection, enable "Silent on CAN Bus" checkbox as follows:



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"Ducati – PANIGALE V4" protocol

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

| CHANNEL NAME | FUNCTION |
|--------------|-------------------------------------|
| RPM | 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 coolant temperature |
| Intake Temp | Intake air temperature |
| TPS Vert | Vertical throttle position sensor |
| TPS Hor | Horizontal throttle position sensor |
| Bike Angle | Bike lean angle |
| Brake Front | Front brake position |
| 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 model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.