AiM User Guide

GET GP1 EVO and GET Power ECU for SoloDL

Release 1.00







This user guide explains how to connect GET GP1 EVO and GET Power ECU to AiM SoloDL. These ECUs are aftermarket products mainly installed on Honda, Suzuki, Kawasaki, Yamaha, Husquarna and KTM bikes. Please refer to GET website "www.getdata.it" to know supported bike models.

1 Installation notes

To install SoloDL on your bike you can use a bar pad. AiM provides the two optional bar pads shown below:

- bar pad for handle bar with cross brace part number: **DNKTKPMSOL1** image on the left;
- bar pad for handle bar without cross brace part number: **DNKTKPMSOL0** image on the right.







GET GP1 EVO and GET Power ECUs can be connected to SoloDL using an interface cable shown here below. Its part number is: **V02569250**.



GET GP1 EVO and GET Power ECUs have a connector used to communicate data to an external device and highlighted here below.



Please note: GET ECU does not power SoloDL. It is thereby recommended to always ensure that SoloDL battery is charged.



In case GET ECU is already connected to an external device it is possible to maintain this connection using AiM cable. As explained in the drawing below, GET ECU can be connected to AiM cable male connector labelled "To the ECU" and the third device can be connected to the ECU through AiM cable female connector labelled "To other devices".



ECU connector has a cap on it. If nothing else is connected to the ECU remove the cap and place it on AiM cable female connector (labelled "to other devices" here above) and connect AiM cable male connector to the ECU female connector.

User Guide



2 SoloDL configuration

Before connecting SoloDL to the ECU, set it up using Race Studio 2 software. Run the software and press "Device Configuration" on the software left keyboard: select "SoloDL" in the panel that shows up as here below.





The software shows SoloDL configuration page: press "Configuration Manager" and select the configuration you want to use or press "New" to create a proper one. In this second case "New configuration" panel appears: select ECU Manufacturer "GET" and ECU Model "GP1_EVO" as here below.

📓 RaceStudio 2.47.05H											- 7 🛛
Elle Device Configuration Download Data	mport SmartyCam Data	a A <u>n</u> alysis Device	e Info Qnline Device Q	alibration Customize Sensor (anguage 2						
	📓 System manag	ger									
(HIII)	Current configuration										
Racing Data Power			Receive]							
AIM Sportline			E Heceive	J							
The World Leader in Data Acquisition	Acquisition Configuration Installation name			Logo	tei	ECU Manufacturer		ECU Model		Created Total Frequency	
	Manager	DEFAULT		SOL	0 DL	SUZUKI	VOSHIMURA_0	9		 February 19, 2013 	402 (Hz)
Analysis	Channels of current i	configuration									
	Chappel identifier	Enabled/	Chappel page		Samping fr	Sensor type		Measure upit			
	CH_1		Internal Battery		1 Hz	Voltage sensor		V .01	1	SmattyLam Fu	nctions setting
<u>D</u> ownload Data	CALC.GEAR Configuration Manager									Gear sensor]]
										None	Calculated
	ACC_2	🔶 New	Ber Dek	ete 🔏 Cione		mport 🗃 Export				ECU Highest	gear number 0
microSD Data	BATT		<u> </u>						_		
	ECU_1	N Installation name		New configuration				Created			/
	ECU_2		001	Data logger type		DL	-				
Device Configuration	ECU_3	-		New configuration name	New configuration name DEFAULT						
	ECU 5			ECU Manufacturer	GET	~					
	ECU_6			ECU Model	GP1_E	evo 🗸	1		5		
Device Into	ECU_7			Speed measure unit	km/h	~	P				/
	ECU_8			Temperature measure unit	*C	~					
	ECU_9			Pressure measure unit	ber						
<u>online</u>	ECU_11								5		
	ECU_12			BOLON					1		
	ECU_13			112 7	8 /						
Device Calibration	ECU_14			1.45.16					4		
	ECU_15			nooc.			1		5		
Curturiles Course of	ECU_17						J				
Customize Sensor u	ECU_18							🖌 🗸 🕬	- 1		
	ECU_19	-			1011	-		1			
Languago	ECU_20		YOSHL_ADV_4		10 Hz	Ange sensor Raw value		deg .01	-		
	ECU_22		YOSHI_QINJ_2		10 Hz	Raw value		# .01	•		
	ECU_23		YOSHI_QINJ_3		10 Hz	Raw value		# .01	•		
	ECU_24		YOSHI_QINJ_4		10 Hz	Raw value		# .01	-		
	ECU_25		YOSHI_FR_BRAKE		10 Hz	Pressure sensor		bar .1	-		
	ECU 27	v	YOSHL WATER TEMP		10 Hz	Temperature sensor		0C	•		
aim-sportline.com	FCII 28		YOSHI AIR TEMP		10 Hz	Temperature sensor		°C	• •		
B 2007 AIM SRL ALL RIGHTS RESERVED	Ibbé e	CU-ONE CAN									
VIA CAVALCANTI, P CERNUSCO SUL NAVIGLIO, HILAN , ITALY		onfiguration									
A STATE OF											

Confirm pressing "OK" in both panels and transmit the configuration to SoloDL pressing "Transmit" as here below.

📓 System manager	System manager				
Current configuration		Receive			
Configuration Manager DE Channels of current config	TAILATION NAME				
Channel identifier	Enabled/	Channel name			
CH_1		Internal Battery			
CALC GEAR		Calculated Gear			



3 GET "GET GP1_EVO" protocol

Channels received by SoloDL connected to GET GP1_EVO protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_TPS	Throttle position
ECU_3	ECU_MAP	Manifold air pressure
ECU_4	ECU_TH2O	Engine coolant temperature
ECU_5	ECU_TAIR	Intake air temperature
ECU_6	ECU_TOIL	Oil temperature
ECU_7	ECU_VBB1	Battery supply 1
ECU_8	ECU_VBB2	Battery supply 2
ECU_9	ECU_BARO	Barometric pressure
ECU_10	ECU_LAMBDA1AVG	Lambda 1 Average value
ECU_11	ECU_LAMBDA1RAW	Lambda 1 raw value
ECU_12	ECU_KLAMBDA1	Lambda 1 correction
ECU_13	ECU_INJ_TIME	Injection time
ECU_14	ECU_SPARK_1	Spark angle 1
ECU_15	ECU_PHASE	ECU phase
ECU_16	ECU_SPEED1	Speed 1
ECU_17	ECU_SPEED2	Speed 2
ECU_18	ECU_MAPPA	Selected map
ECU_19	ECU_GEAR	Engaged gear
ECU_20	ECU_DTPS	Throttle position derivative
ECU_21	ECU_DECAYINJ	Differential injection revs 1
ECU_22	ECU_CINJ_DFARF	Throttle derivative control during injection time
ECU_23	ECU_KINJTH2O	Water temperature correction during injection time
ECU_24	ECU_KINJTAIR	Air temperature correction during injection time
ECU_25	ECU_REVS	ECU revolutions in counts