AiM Infotech

Microtec M197 for Ducati Bikes

Release 1.00



ECU





This tutorial explains how to connect Microtec M197 ECU to AiM devices.

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Supported Ducati Models

At July 2013 Microtec M197 can replace these Ducati bikes ECU:

- Hypermotard 1100
- Monster
 - 0 400
 - 0 620
 - 0 695
 - 0 750
 - 0 800
 - 0 900
 - 0 1000
 - o S2R 800
 - o S2R 1000
 - o **S4**
 - o S4R
- Multistrada
 - 0 620
 - 0 1000
 - 0 1100
- Superclassic
 - o GT1000
 - o Paulsmart 1000
 - o Sport 1000

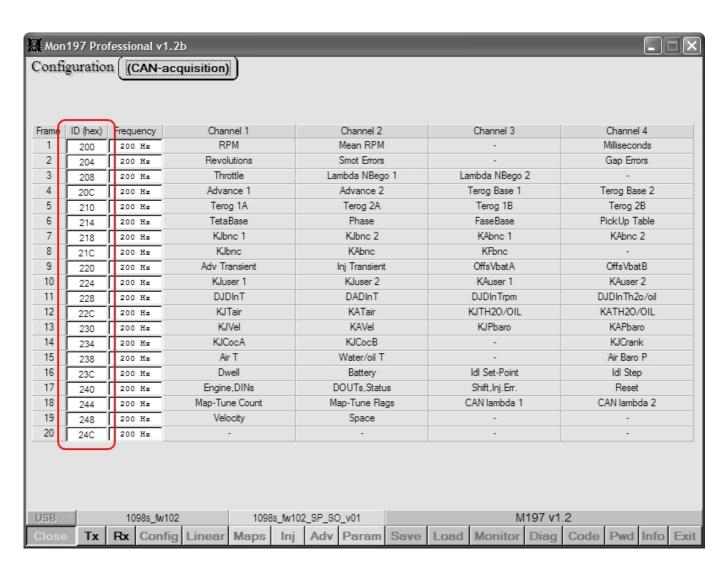
- Sport Turing
 - o ST2
 - o ST3
 - o ST4
- Street fighter 1098
- Super Bike
 - 0 749
 - 0 848
 - 0 998
 - 0 1098
 - o 108R
 - 0 1198
- Super Sport
 - 0 620
 - 0 750
 - 0 800
 - 0 900
 - 0 1000

Please note: always check Microtec website at www.microtec.cc to see which bike models are fully compatible.



Software Setup

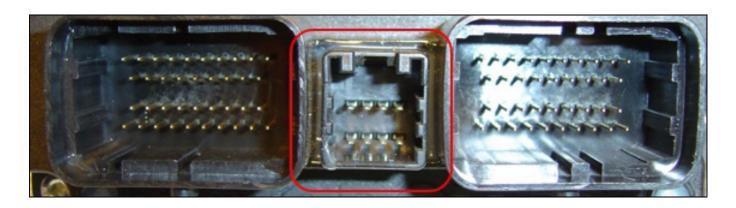
On this ECU CAN line is disabled by default. Please address to Microtec to know how to enable the CAN line. Once performed this step it is important that that CAN Acquisition configuration page IDs (hex) are set as here below.



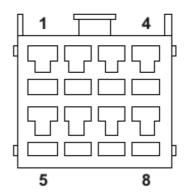


CAN connection

Microtec M197 ECU is equipped with a CAN communication protocol on the ECU central AMP male connector, highlighted here below.



The AMP female connector that is to be plugged in is shown below with the connection table



Female connector pin	Pin function	AiM cable
2	CAN High	CAN+
3	CAN Low	CAN-



AiM Logger configuration

Once the ECU connected to the logger, set up the logger as follows:

Run Race Studio 2 software and select:

- Device Configuration -> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "Microtec" and ECU Model "M197_Ducati"
- transmit the configuration to the device pressing "Transmit".



Available channels

Channels received by AiM devices connected to Microtec M197_Ducati protocol are.

ID	CHANNEL NAME	FUNCTION
ECU_1	M_RPM_MEAN	RPM average value
ECU_2	M_RPM_INST	Instantaneous RPM
ECU_3	M_SPEED	Vehicle speed
ECU_4	M_THROTT	Throttle
ECU_5	M_ADV1	Cycle Advance 1
ECU_6	M_ADV2	Cycle Advance 2
ECU_7	M_TEROG_B1	Injector erogation time cylinder 1
ECU_8	M_TEROG_B2	Injector erogation time cylinder 2
ECU_9	M_TETABASE	Ignition base advance
ECU_10	M_PHASE	Injection phase
ECU_11	M_PHASEBASE	Injection phase base
ECU_12	M_AIRT	Intake air temperature
ECU_13	M_ECT	Engine coolant temperature
ECU_14	M_BARO_PRESS	Barometric pressure
ECU_15	M_DWELL	Dwell time
ECU_16	M_BATT_VOLT	Battery voltage
ECU_18	M_LAMBDA1_CAN	Lambda value 1 via CAN
ECU_19	M_LAMBDA2_CAN	Lambda value 2 via CAN
ECU_20	M_STOP_SW	Stop switch
ECU_21	M_CLUTCH_SW	Clutch switch
ECU_22	M_NEUTRAL_SW	Neutral switch
ECU_23	M_SIDE_STAND	Side stand
ECU_24	M_LAM1_NBEGO	Lambda value 1
ECU_25	M_LAM2_NBEGO	Lambda value 2