



DO POWER 1 ECU

DATA SHEET

MAIN SPECIFICATION:

DIMENSIONS AND WEIGHT	126x113x31mm, 400g mass	ENGINE SPEED	1 inductive sensor input (configurable flywheel tooth pattern)
MATERIAL	Fully machined aluminum case with waterproof ventilation membrane	SUPPLY VOLTAGE	8 - 16,5 V range
AS CONNECTOR	55 poles gold plated	DATA ACQUISITION	integrated in the ECU
INJECTION	2 independent low-pressure injectors	MEMORY SIZE	512 Mbyte
IGNITION	1 spark plug ignition driver output	ACQUISITION FREQUENCY	max 5kHz
THROTTLE BY-PASS	1 stepper motor	LOGGING CHANNELS	max 256 channels
FUEL PUMP	1 fuel pump driver (max current <5 A)	VEHICLE COMMUNICATION LINE	CAN 2.0B (1Mbit/s)
OXYGEN SENSOR	1 LSU 4.9 sensor (controller integrated in the ECU)	ECU-PC COMMUNICATION LINE	Ethernet 10/100
		COMPATIBLE	with Dellorto 5 and 6-axis IMU

CONTROL STRATEGIES:

INJECTOR 1	4-D map (RPM, TPS, Gear) Map size 32x16x6	LAUNCH CONTROL PRACTICE TEST	
INJECTOR 2	4-D map (RPM, TPS, Gear) Map size 32 x16x6	ANTI-JERK (throttle reinstatement)	
IGNITION ADVANCE	4-D map (RPM, TPS, Gear) Map size 32x16x6	PIT LIMITER	
IGNITION COIL DWELL TIME	2-D map (Vbatt) Map size 16x2	ENGINE CRANKING AND WARM-UP	
INJECTION PHASE ANGLE	3-D map (RPM, TPS, Inj 1/2) Map size 32x16x2	TRANSIENT THROTTLE COMPENSATION	
INJECTORS DEAD TIME	2-D map (Vbatt, Inj 1/2) Map size 16x3	AIRBOX PRESSURE COMPENSATION	
MAPS	3 selectable rider maps	AIRBOX TEMPERATURE COMPENSATION	
REV LIMITER	hard-limiter @ 13.500 RPM	ENGINE TEMPERATURE COMPENSATION	
REV LIMITER	soft limiter configurable with Manufacturer licence	AUTO-MAPPING	slow for test dyno setting, fast for race-track self-learning
ENGINE BRAKE	fully configurable with Team licence	REAL-TIME CALIBRATION	for test dyno activity with manufacturer licence
QUICK-SHIFTER	ignition cut-off / retard and injection control	VIRTUAL PIT-BOARD MESSAGES MANAGEMENT	
TRACTION CONTROL		RACE DIRECTION MESSAGES MANAGEMENT	
LAUNCH CONTROL		LAP TIMING WITH INTERMEDIATE TIME	