Comparison Table

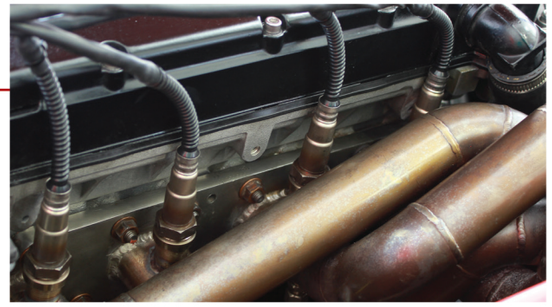
		FT250	FT300	FT350	FT400	FT500
SPECIFICATIONS	Max engine RPM	16000 RPM	16000 RPM	16000 RPM	16000 RPM	32000 RPM
	Piston engine control (cylinders)	1 ~ 12	1 ~ 12	1 ~ 12	1 ~ 12	1 ~ 12
	Rotary engine control (rotors)	Fuel Only		2	2 - 3	2 - 3 - 4
	Sequential ignition	—	✔	✔	✔	✔
	Sequential fuel injection	—	—	—	—	✔
	Fuel banks (stages)	2	2	2	2	2
	Fuel injection time resolution	0.040ms	0.040ms	0.040ms	0.040ms	0.001ms
	Built-in dashboard	—	—	✔	✔	✔
	Diagnostic panel	—	—	✔	✔	✔
	Real time programming	Interface	Interface	Interface	Interface	Interface - PC
	Editable sensors parameters	—	—	—	—	✔ [a]
	Simplified 2D fuel and ignition maps	✔	✔	✔	✔	✔
	Advanced 3D fuel and ignition maps (table)	—	—	—	—	✔ (32x32)
	Individual fuel and ignition trim	—	—	—	—	✔
	Fuel injection phase angle control	—	—	—	—	✔
	Crank trigger input	—	✔	✔	✔	✔
	Configurable map resolution	—	—	—	—	✔
	Electronic throttle control (drive-by-wire)	—	—	—	✔	✔
	RPM signal input	Hall	Hall - Magnetic			Hall-Magnetic (differential)
	External MAP sensor input	—	—	—	—	✔ [b]
	Fine tuning features and maps	—	—	—	—	✔ [c]
INPUTS AND OUTPUTS	Input channels	6	7	7	13	13
	├ Fixed inputs	4	5	3	12	2
	└ Configurable inputs	2	2	4	1	11 [d]
	Output channels	8	12	12	20	20 [e]
	├ Injector outputs	2	2	2	2	0 ~ 20 [f]
	├ Ignition outputs	1	5	5	6	0 ~ 8
	├ Auxiliary outputs	4	4	4	7	0 ~ 20
	├ Tach outputs	1	1	1	1	0 ~ 1
	└ Electronic throttle/step motor outputs	0	0	0	4	0 ~ 4
DATALOGGER	Datalogger capacity	25min	25min	25min	25min	1h25min
	Sampling rate	2 ~ 20 Hz	2 ~ 20 Hz	2 ~ 20 Hz	2 ~ 20 Hz	25 ~ 200 Hz
	Configurable rate per channel	—	—	—	—	✔
	Number of sessions (files)	1	1	1	1	Multi
	Customizable channels	—	—	—	—	✔ [d]
	Internal datalogger channels	18	19	19	24	64
HARDWARE	Programming interface	4 buttons		Touchscreen		
	Dash Display	OLED 16x2	OLED 16x2	4.3" Color	4.3" Color	4.3" Color
	Processor (processing capacity)	10 MIPS	30 MIPS	30 MIPS	80 MIPS	375 MIPS
	Built-in MAP sensor (absolute)	7 bar / 103 psi	7 bar / 103 psi	7 bar / 103 psi	7 bar / 103 psi	7 bar / 103 psi
	FuelTech CAN network	✔	✔	✔	✔	✔
	PC communication	CAN	CAN	CAN	CAN	USB
	Connector (pins)	24 + CAN	24 + CAN	24 + CAN	40 + CAN	40 + CAN + USB
	Weight	170g / 6oz	175g / 6.2oz	220g / 7.8oz	230g / 8.1oz	230g / 8.1oz
	Dimensions	141mm x 82mm x 33mm / 5.51" x 3.22" x 1.29"				

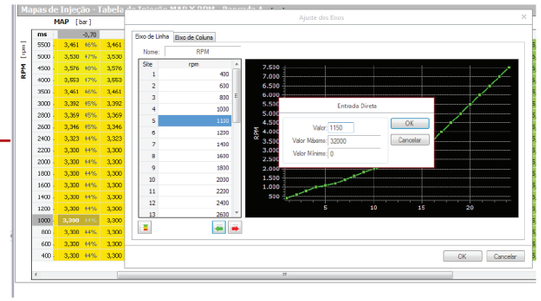
Example of 16 injectors in sequential mode.

Replaces all dashboard instruments.

Table edition though the interface or PC.

[a] Allows compatibility with OEM sensors (including paralell connection with OEM ECU).





[c] Features and maps developed to improve the engine control on several applications, providing better driveability and comfort. Example: prime pulse, afterstart enrichment, TPS or MAP compensations, idle controls integration, voltage compensation per bank, idle by TPS table, deceleration fuel control.

[b] Allows the use of the stock MAP sensor on a "plug and play" installation.

[e] All the outputs are configurable, up to 20 channels.

[d] Channels are customizable as, in example: exhaust backpressure, suspension travel sensor, exhaust gas temperature (requires FuelTech ETM-1), fuel tank level, etc.

[f] Up to 8 outputs to control saturated injectors with no external driver needed.

For FT500, the recording time was measured with 24 channels and 25Hz, for the rest of the line it was at 2 Hz with the maximum number of channels.

MIPS: Milions of Instructions Per Second - Unit used to indicate a processor power, similar to horsepower on an engine.

FT500 uses a common mini USB cable (included). The rest of the line demands the FuelTech USB-CAN Converter (sold separately).

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