MS3pro®

ENGINE MANAGEMENT SYSTEMS

MS3Pro EMS Comparison Guide

SO WHAT'S THE DIFFERENCE?

	1ST GEN (REPLACED BY EVO)	**EVO** (REPLACES 1ST GEN)	**ULTIMATE**

FEATURES

	1ST GEN	EVO	ULTIMATE
VE based tuning	☑	☑	☑
Speed density	☑	☑	☑
Alpha-N	☑	☑	☑
MAF-based	☑	☑	☑
Blended (mixture of SD, Alpha-N, MAF as needed	☑	☑	☑
Up to 12 cylinder sequential support	☑	☑	☑
Unused injector outputs used as digital hi current or PWM	☑	☑	☑
Distributor	Single/dual	Single/dual	Single/dual
Wasted spark	☑	☑	☑
Coil per plug	☑	☑	☑
Per cylinder table-based corrections for fuel & spark	☑	☑	☑
O2 per cylinder supported	☑	☑	☑
Table switching for multiple fuel trims		☑	☑
VVT control	4 channels	4 channels	4 channels
Odd fire engine supported	☑	☑	☑
Rotary supported	☑	☑	☑
Internal hi-speed datalogging	☑	☑	☑
Datalogging speed	120 hz	330 hz	330 hz
No. channels datalogged	30	64	64
Real time calendar clock (RTCC)		☑	☑
Onboard traction control & configurable vehicle response	Multiple strategies	Multiple strategies	Multiple strategies
Alcohol & flex fuel supported	☑	☑	☑
Wideband support	ALL OEM & aftermarket	ALL OEM & aftermarket	ALL OEM & aftermarket
Nitrous control	2 channels, staged or progressive	2 channels, staged or progressive	2 channels, staged or progressive
Boost control	Multiple open/closed loop strategies	Multiple open/closed loop strategies	Multiple open/closed loop strategies
Transbrake control	☑	☑	☑
Idle control	Multiple open/closed loop strategies	Multiple open/closed loop strategies	Multiple open/closed loop strategies
Water/methanol injection	☑	☑	☑
Fuel pump control	On/off or PWM	On/off or PWM	On/off or PWM
DSP based knock detection	2 channels	2 channels	2 channels
Configurable engine safeties & vehicle response	☑	☑	☑

INPUTS & OUTPUTS

	1ST GEN	EVO	ULTIMATE
Peak & hold injector outputs (Programmable 4:1 or 8:2)	0	0	10 channels
Saturated injector outputs	12	12	2
Low impedance injectors supported			10 channels
High impedance injectors supported	☑	☑	10 channels + 2 stage
Ignition outputs	8+2	8+2	8+2
Digital inputs	4	4	7
Digital input or output (dedicated)	0	0	5
PWM outputs	3	3	5
Digital output (dedicated)	0	0	2
Analog inputs (spare)	3	7	8
Hi Current outputs	2	2	2
Digital frequency inputs	3	3	3
Variable reluctor conditioned inputs	2 channels	4 channels	4 channels
Onboard MAP sensor		4 BAR	4 BAR
Onboard baro sensor		☑	
5V Ref	☑	☑	2 (separately fused)
Keep alive memory (KAM)			☑
CANBUS	☑	☑	☑
Serial	☑	☑	☑
USB	☑	☑	☑
Visual diagnostics		☑	☑
Water resistant enclosure	☑	IP65 rating	IP65 rating

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