

AUTRONIC MAFM1 B version - Specifications

MULTI SENSOR COMPATIBLE AIR/FUEL RATIO METER

MAFM1 is a dependable lambda (or air/fuel ratio) measurement instrument that is suitable for in-vehicle or dynamometer test cell applications.

Availability, purchase standalone or as a kit with in-vehicle or dynamometer test cell leads sets.

In-vehicle kit includes MAFM1 meter, and power/log and Croc. clip power leads, and UEGO sensor lead (4 metre).

Dynamometer test cell kit includes MAFM1 meter, power/log and Croc. clip power leads, and UEGO sensor lead (8 metre).



Measurement range	Using UEGO sensor Using LSM11 sensor	0.618 - 5.4 λ 0.580 - 5.4 λ (extended range option - requires firmware rev 1.06) 0.7 - 1.3 λ
Digital readout	Display Units Resolution Update rate Effective filtering time constant	4 digit 0.52" Hi-intensity red LED λ , or A/F Petrol, Gas or Alcohol 0.01 or 0.001 λ , or 0.1 or 0.01 A/F (depending on sensor type connected) 1.25 to 5 samples/sec (user selectable) 0.1 to 6.4 SEC (user selectable)
Bar Graph readout	Display range Response time Display modes Max, Min hold times	20 segment multi-colour LED 0.50 - 3.05 λ (user adjustable limits) 40mSEC (approx) Instantaneous value and / or max value, min & max, min & max & actual, min to max 0.1 - 1.6 SEC (user selectable)
Analog output	Output type Output range Output voltage range Output resolution Effective filtering time constant Signal ground range	Twin voltage O/P type, tolerant to system ground voltage difference 0.5 to 3.05 λ (user can define λ values for min & max O/P limits) 0 - 1.05 & 0 - 5.2 volts (both available simultaneously) Better than 0.1% FS 0.04 - 0.5 SEC (user selectable) +/- 3.0 volts
Power supply - Voltage	Normal operation Operational limits Survival limits	11.0 to 16 volts DC 10.3 to 20 volts DC continuous +/- 23 volts (< 5 minutes) Outside +/-23 volt limits: > +80 A (Load dump < 20 mSEC) > +100 A (Inductive surge < 1 mSEC) < -1000 V (Inductive surge < 10 uSEC)
Power supply - Current	Typical Max	< 1.0 Amp + sensor heater current 1.0 Amp to 4.0 Amp (sensor warm) < 10 amp (sensor cold)
Operating temperature range	Limits	-25 deg C to +70 deg C (Automatic safety shut-down @ 70deg C approx)
Storage temperature range	Limits	-40 deg C to +80deg C
Housing	Case type Size	ABS 200 * 112 * 31 mm (l * w * h)
Weight		0.4 kg
Connectors	Main connector Sensor connector	D-sub 9 male (high durability type) D-sub 15 female (high durability type)