

Technical data AiM MXm

RPM	<p>Tapping from the ECU, from the clamp 1 of the ignition coil or CAN/RS 232/OBDII</p> <p>Measuring range 0 up to 22.000 RPM</p> <p>Scale end adjustable (x 1000): 4 - 6 - 7 - 8 - 10 - 12 - 14 - 15 - 16 - 18 - 20 - 22</p> <p>Sampling rate 10 - 50 Hz, free arbitrary</p> <p>free konfigurabel over-revs-controll-LED</p>
Time keeping	<p>Triggering over GPS</p> <p>Laptimes without limit, up to 5 split times</p> <p>Measuring accuracy 1/100 sec.</p> <p>Lap time projection</p>
Analog channels	<p>4 inputs (0-5 V, 12 bit)</p> <p>Thermocouple 0 –1200°C, Measuring accuracy + 0,75%</p> <p>Thermo resistance up to 180 °C, Measuring accuracy + 1°</p> <p>2 RGB Alarm-LED's when failing below or exceeding the set alarm values</p> <p>Anzeige in °C oder °F</p> <p>Abtastrate 1 – 1000 Hz, frei wählbar</p> <p>Tages- und Gesamtkilometerzähler</p>
Speed	<p>2 digital inputs</p> <p>Recording over inductive wheel rotational sensor ABS, CAN/RS 232/OBDII</p> <p>0 – 438, Indication in km/h or mph</p> <p>Sampling rate 10 - 100 Hz, free arbitrary</p>
Acceleration	<p>Triaxial ± 5G, triaxial Gyroskop and triaxial Magnetometer</p> <p>Sampling rate acceleration 1 - 100 Hz, free arbitrary</p> <p>Sampling rate gyro 1 - 50 Hz, free arbitrary</p>
Gear indication	<p>Calculates out of rpm and speed, captures over gear sensor or CAN/RS232/OBDII</p>
Total sampling rate	<p>5.000 Hz (without ECU)</p>
Connector	<p>1x Autosport 37 pin Souriau 8STA61435SN Deutsch AS61435SN</p> <p>1x DTP 06-4S</p> <p>1x Mini USB on the wiring harness</p>
Shift light	<p>5 free configurable RGB LEDs</p> <p>For each gear free configurable</p>
Additional functions	<p>Indication of the difference to the fastest lap with split times</p> <p>Lap time projection</p> <p>Wifi connection</p> <p>Light sensor for display illumination</p> <p>2 15A power outputs</p> <p>Calculated channels</p>

	Free configurable indication
Data storage	Non volatile 4GB storage
Data transfer	WiFi 802.11 or USB
Power supply	over 12V on-board power supply ON / OFF over ignition switch no data loss after powering off
Updates	Software and firmware updated for free over RaceStudio3 or internet
Measurements	Housing: 137 x 88,4 x 31,9 mm Display: 94,6 x 46,1 mm
Weight	330 gr
Protection class	IP65

The functions of MXm



1	2 RGB alarm lights, free configurable	2	5 RGB shift lights, free configurable	3	4 Display buttons with various functions
4	Light sensor for display illumination	5	Analog RPM indication, free configurable, under RPM digital	6	Indication of analog channels
7	Lap number and lap time functions				

Wi-Fi Connection



Over the secure 802.11 WiFi connection the MXm can in conjunction with the RaceStudio3 be configured, calibrated or the data can be downloaded.

Two 15A power outputs

The AiM MXm provides two 15A power outputs over one connector. This can be configured by yourself, that it turns on a connected component at a specific analog or digital event



Example	Condition	Action
Analog event	Water temperature > 90°	Turn on the fan
Digital event	Luminosity < 40%	Turn on the lights