



DEGREE | PRESSURE | TRACTION | TEMPERATURE





Hi.Pre.Ma^{EVO} 3

7BAR / 101 PSI PRESSURE RANGE
CLASS OF ACCURACY : 0,1

We have managed to get the most of our technology
Increased the full scale and greatly improved the accuracy class



MADE IN ITALY



HIPREMA 3 EVO is the digital tire pressure gauge that ensures a perfect tire pressure measurement. It is intended and optimized for all sectors of motorsport where tyre pressure can make the difference in order to reach an excellent performance.

HIPREMA is synonymous of precision, reliability and ease of use.

- **PRECISION** : maximum error at full scale of 0.1%
- **RELIABILITY** : this gauge does not require calibration; whenever you switch on it the internal microprocessor automatically performs the procedure in order to reach a reliable measure at 100%.
- **EASE OF USE** : it is possible to save the pressure of each wheel pressing MEM button. This gauge shows automatically the tyre to measure.

HIPREMA is the unique instrument which is able to save the values of the tyre pressure for each wheel and it allows to compare easily the pressure changes for each wheel directly on the display. For each session, it is possible to save 4 cold pressure values and 4 hot pressure values (2 + 2 BIKE mode).

It is possible to use HIPREMA 3 in two modes:

- NORMAL MODE

It is possible to measure and adjust the tyre pressures without saving them.

- MEMORY MODE

Pressing the MEM button, it is possible to save in sequence the hot and cold pressures in order to have the possibility to compare on the display the changes having during the the performance of race.

HIPREMA can save a maximum of 15 sessions.



PRISMA
ELECTRONICS

Hi.Pre.Ma^{EVO} 3

High Precision Manometer

Pressing MEM button for 5 seconds
it is possible change mode from
CAR to BIKE or viceversa



Test O2 showed
on the display



ACCESSOIRES
Instrument case



SPECIFICATIONS

- BAR and PSI pressure unit
- Measure resolution : 0,1 BAR - 0,1 PSI
- Class of accuracy : 0,1%
- Pressure range : 7 BAR - 101 PSI
- 8 storable pressure values for each set
- It is not required calibration, it is automatic
- Memory stores 15 complete sets of pressures
- Longer battery life - 2 years
- Brass head MICHELIN
- Auto power off
- Indication of battery charge

MADE IN ITALY

CE

www.prismaelectronics.com



Tyre Pyrometer

Tyres - Track - Asphalt

It is possible to evaluate the dynamic trim of the vehicle through the evaluation of temperatures in the different points of the tyres. From this assumption, Prisma Electronics has developed a digital pyrometer that measures and saves the temperatures of the tyres in three different characteristic points of the tyre: EXTERNAL - INTERMEDIATE - INTERNAL . Moreover, it is possible to save also the temperatures of ASPHALT and AIR in order to have all the parameters immediately available on the display. The peculiarity of the tool is to save 10 complete sets. Each set consists of 12 points of tyre temperature, air, asphalt.

For the measurement of the temperature, it is used a needle probe which enables to penetrate into the tyre in a simple and immediate way, without damaging it.

It is possible to use the instrument in two modes:

- **NORMAL MODE**
- **MEMORY MODE**

Another feature is the backlight of the display through the external light sensor; the level of the backlight is automatically adjusted according to the ambient light. In this way, the reading of the measurements is always optimized.



°C and °F units

12 points of tyres + AIR + ASPHALT temperatures

Memory stores 10 complete sets of temperature

Backlit display with external light sensor

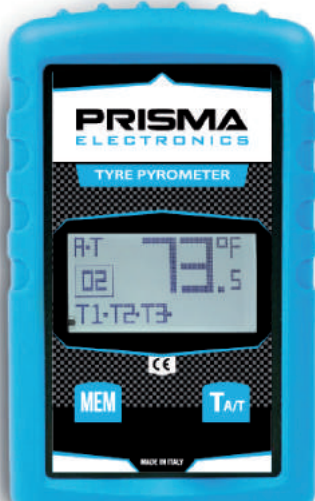
0,5 mm tyre probe diameter



Tyre Pyrometer



Memory mode



Normal mode



SPECIFICATIONS

- °C and °F measurement units
- Measure resolution : 0,25°C - 0,45 °F
- Temperature error : +/- 1°C
- Temperature range : 0°C - 1000°C / 1832°F
- 12 points of tyre temperature for each set
- Air + Asphalt temperature
- Memory stores 10 complete sets of temperatures

TYRE PROBE SPECIFICATIONS



- Type K thermocouple
- Max temperature : 200°C / 392 °F
- Probe diameter : 0,5 mm

ACCESSOIRE - High temperature probe 1000°C / 1960°F

High temperature probe with flat surface for measuring brake disc, exhaust pipe and all points with a maximum temperature of 1000°C / 1960°F





Digital Degree Wheel 4

When the research creates perfection



WE HAVE ALSO DESIGNED AND MADE THE MECHANICS AND THE ELECTRONICS OF THE ENCODER USING A NEW TECHNOLOGY IN ORDER TO ENSURE THE ACCURACY OF THE MEASURE

The Digital Degree Wheel is an electronic instrument, with digital reading, which is used for the measurement of the diagram phase of the 2-stroke engines and for the tuning up of the camshaft in the 4-stroke engines at the tenth of degree of precision. It is an essential instrument to know precisely the exhaust port and transfer ports diagram of 2-stroke engines and the degrees of opening and closing of the valves in the 4-stroke engines. The Digital Degree Wheel 4 has been designed and made with electronic components of high precision optimized to be used in the motorsport world. It has been created to replace the mechanical degree wheel and to resolve the problem of accuracy which is the main element for the tuning of the racing engines. The Prisma Electronics has continued the development of this instrument with this last version. In 1995, the Prisma Electronics made the first version and by the time it has become the benchmark for the measurement of the diagram of 2-stroke and 4-stroke engines.

The Digital Degree Wheel 4 reads 100 times per second the absolute position of the crankshaft in order to not miss also a hundredth of a degree of measurement. It is possible thanks to the mechanical and electronic features of the encoder and of the display unit which are completely designed by Prisma Electronics

Developments of the Digital Degree Wheel



Digital Degree wheel
1995



Digital Degree wheel 2
2001



Digital Degree wheel 3
2007



Digital Degree wheel 3 EVO
2013



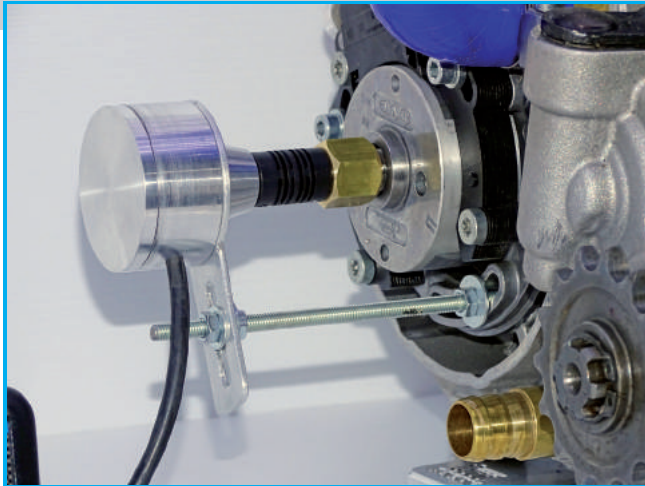
RACING INSTRUMENTS

Get Ahead...

PRISMA
ELECTRONICS

TECHNICAL FEATURES

- Accuracy : +/- 0,1°
- **Camshaft modes : 0°-90°-0°-90°**
- Backlit display
- Aluminum billet encoder
- Brass adapters for crankshaft
- Power battery



(Rendering 3D)
Encoder completely designed and
made by Prisma Electronics



Kit includes:

- 03 crankshaft adapters
10x1 mm, 12x1mm, 12x1,25mm
- USB power supply
- USB adapter cable
- Instrument case
- Support for fixing to the engine

ACCESSORIES



Foot reset switch

MADE IN ITALY CE

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