

NitroCheck Gauge



S P E C I F I C A T I O N S
O P E R A T I O N

*Please read this
manual before use.*

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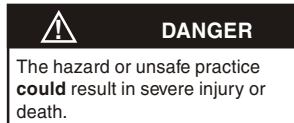
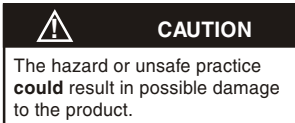
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1.0 Introduction

1.1 This Manual

Congratulations on selection an Haltec NitroCheck.

Throughout the manual the following symbols will be used, this information is for your safety and to prevent damage to this product.




1.2 NitroCheck Overview

Your NitroCheck gauge is a small hand-held instrument including an electro-chemical sensor for quick determination of oxygen-concentrations in tyres. Based on the diffusion principle, it can either work passive or active in a gas stream.


1.3 General Specifications

All product specifications are applicable at standard conditions: 1013 hPa, 25°C dry ambient air.

 **CAUTION**
Do not dip NitroCheck into any liquids.

 **CAUTION**
Do not expose NitroCheck to excessive heat.

 **CAUTION**
Do not connect NitroCheck to closed pressure systems above 2 bar.

 **DANGER**
Do not open NitroCheck, it contains caustic.

Measurement Range	0 - 99 % oxygen
Display Resolution	1 vol %
Measurement Cycle	1 second
Connector	M 16 x 1
Response time 90%	Less than 2 seconds
Accuracy	± 0.5 vol% from 0 to 50 vol% ± 2 vol% from 50 to 99 vol%
Operating temperature	0 - 50 °C
Storage temperature	
Optimal	5 to 25 °C
Maximum	-5 to 60 °C
Operating time	More than 2 years
Weight	80g
Physical dimensions	74H x 48W x 59D mm ³

2.0 Calibration

- 1 NitroCheck is always in operation and ready to measure. It must be calibrated for getting accurate results.
- 2 Calibration has to be done in the following cases
 - ❖ If the reading on the display deviates from 21 Vol.%, measured at ambient air.
 - ❖ If the last calibration has not carried out at ambient air.
- 3 Calibrate NitroCheck by pushing "CAL" button until **CA** appears on the LCD.
- 4 NitroCheck reaches the end of usage life when readings on LCD disappear.

Operation

- 1 After filling the tyre with Nitrogen, connect the chuck of NitroCheck to tyre valve.
- 2 A reading will appear on the display as a percentage.
- 3 NitroCheck reads the Oxygen (O²) percentage in the tyre.
For example, a 5% reading means the tyre contains approximately 95% of Nitrogen (N²).

3.0 Packing & Storage

The NitroCheck gauge is supplied in a plastic bag.

During storage the sensor uses up the oxygen present inside the box. Purging the plastic bag with nitrogen would increase lifetime.

In order to become ready for measuring, the sensor needs a little time after being removed from the plastic bag, dependent on the time it has been in storage and the storage temperature. This may take 1-2 min.

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