

UniTire V2 Pressure Gauge
IR Temperature addendum

Important safety instructions and information

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INTERNATIONAL DEALERS

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DESIGN AND PRODUCTION

Designed and manufactured in Denmark by Unipro ApS.

The UniTire pressure gauge was designed by Palle Schultz, Denmark:
www.palleschultz.dk

Unipro reserves the right to make changes and improvements to any of the products described in this document without prior notice.

Part numbers:

17-02-020 UniTire - IR V2 (black)
17-02-021 UniTire - IR V2 (dark blue)
17-02-022 UniTire - IR V2 (red)
17-02-023 UniTire - IR V2 (silver)

All part numbers are including a protection cover.

Spare part numbers:

17-03-030 Button for UniTire handle
17-03-031 Button for UniTire display
17-03-033 Two M4 x 12 stainless screw
17-03-034 Gasket for UniTire handle
17-03-036 Junction cable UniTire

ABOUT THIS USER GUIDE

This guide was written and produced by Unipro ApS.

UniTire - IR V2 addendum version 2.00

Made for UniTire V2 firmware version 1.0x.

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Introduction

This User Guide addendum contains all relevant information about your new UniTire digital tire pressure gauge equipped with an infrared (IR) temperature sensor.

Get ready to use the UniTire in 2 minutes with the Quick Guide in the main UniTire User Guide. Please read the Quick Guide before reading all about the additional advanced features and functions of the IR temperature sensor in this Reference Guide.

UNIQUE UNITIRE IDEAS

UniTire combines many new ideas not seen before in a tire pressure gauge:

- The pressure sensor is placed directly in the air handle, which is connected to the gauge with a flexible cable instead of an air hose. This makes the measurement very precise because no air is wasted in the air hose.
- The handle has two air valves, which makes it easy to use with right or left hand - and allows you to let out more or less air.
- The handle is angled in a way which allows easy access to any type of tire valve.
- The standard pressure range is 0-5 bar.
- The "Stealth mode" enables you to hide the pressure values from prying competitors, only showing if your tire pressure is at, above or below target.
- The "Sequence mode" allows you to save tire pressure values in a specified order for later analysis - and do it very quickly!
- The user interface comes in many different languages, including Danish, Dutch, English, French, German and Italian pre-installed.

EASY TO USE

Even with all the advanced features, the pressure gauge is very easy to use.

The graphical display makes it effortless to see and analyze the tire pressure saved in the pressure gauge.

The unique round shape with 4 gray tones is easy to read, and supports different sizes of text and numbers.

The graphical display also supports a regular analog gauge if you prefer this look over the digital look.

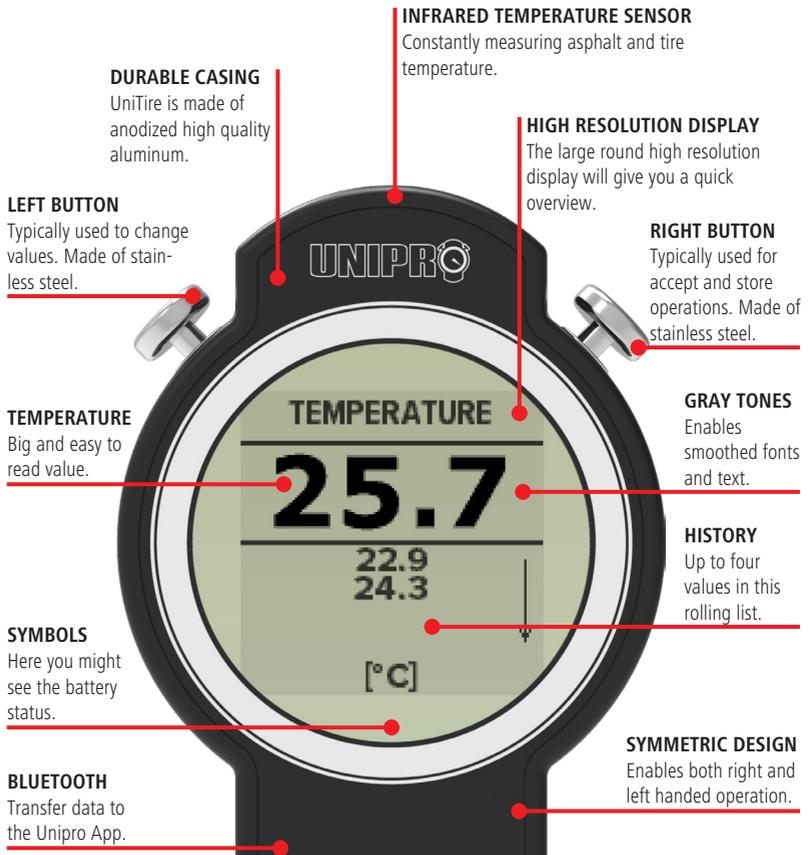
The feedback we get from drivers and teams about UniTire tells us that we have succeeded in making the UniTire easy to use.

Specifications and overview

IR temperature range	-40 .. +115 °C (-40 .. +239 °F)
Resolution	0.02 °C (0.036 °F)
Accuracy	< ±0.5 °C (±0.9 °F) in the range 0 .. 60 °C (32 .. 140 °F)
Accuracy	< ±1.5 °C (±2.7 °F) in the range 60 .. 115 °C (140 .. 239 °F)
Battery lifetime	~ 200 hours*
Temperature units	Celsius / Fahrenheit
Memory	20 tires set including asphalt temperature
Emissivity correction	0.94**
Field of view	80°
Calibration	None needed

* **Battery lifetime:** Measured in pressure mode with new Alkaline batteries.

** **Emissivity correction:** This value is selected for best emissivity from tires and asphalt.



Reference Guide

In the reference guide you can find detailed information about the additional features and functions of the IR temperature sensor in the UniTire.

We recommend that you read this guide at least once, if you want to get the full value of your UniTire - IR.

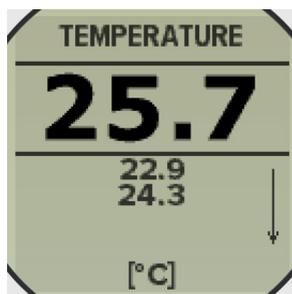
We have done our best to make UniTire really easy to use - but once you know the basics, you will find that we have also put in a lot of really useful advanced features.

TEMPERATURE / PRESSURE

When UniTire is in pressure mode you can switch between pressure mode and temperature mode.

Keep pressing the **right** button (➡) at startup to go directly to pressure mode.

When you are in pressure mode, you can switch between pressure and temperature mode by pressing a little longer on the **left** button (⬅).



Temperature view with large current value and small history list values. In the bottom of the screen your chosen temperature unit is shown.

To save a current temperature value in the history list, simply press the **right** button (➡).

Each time a new temperature value is put in the history list, the oldest one drops off the list. The newest value is at the top - also indicated by the arrow in the right side of the display. The history list will be saved even when UniTire is turned off.

If you want to clear the history, press and hold down the **left** button (⬅) until the history list disappears.

In setup mode, you can choose if you want to show the temperature value in degree Celsius or degree Fahrenheit.

SEQUENCE MODE

In sequence mode you measure and save the temperature on all tires in a predefined order (2 or 4 tires depending on which sport you have chosen in setup). The asphalt temperature is measured as part of the sequence.

You can save up to 20 sequences in the memory - so you have an easy access to the actual tire temperature values from a full day of racing without having to write anything down.

Keep pressing the **left** button (⬅) at startup to go directly to Sequence mode.

Operating UniTire



The first screen in the sequence is the asphalt temperature.

Press the **right** button (➡) to save the asphalt temperature and move on to the first tire.

If you make a mistake and want to clear the measurements in the current sequence, press and hold the **left** button (⬅) down until asphalt temperature is shown again.



Large current temperature for Rear Left tire, an arrow to show the sequence direction and numbers in the corner showing that you are measuring tire 3 of 4.

RECALL MODE

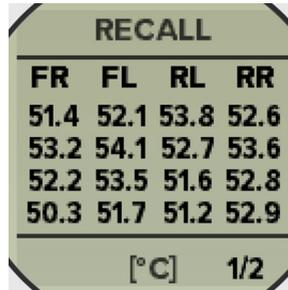
The recall mode is where you view the asphalt and tire temperature values you have saved in Sequence mode.

You can store up to 20 sequences with either 2 or 4 tire in each sequence (depending on the chosen sport).

To enter recall mode, press the left but-

ton (⬅) from either sequence mode or stealth mode.

When you enter recall mode, it will always start with the tire pressures. To change to tire temperature press a little longer on the **left** button (⬅).



The recall screen will show either two or four tires, listed in the sequence you selected in setup. In this example you see page 1 of 2.

The first line will always show the newest saved values!

When you measure more than 20 sets of tires, the oldest one will be erased and the new one will be stored.

Each page in Recall mode can show four different sequences with either 2 or 4 tires in each.

In the bottom right corner you can see which page you are on, and how many pages there are in total. This example is showing page 1 out of a total of 2 pages. The maximum number of pages is 5.

The temperature values are using the unit selected in setup mode. The unit is shown in square brackets at the bottom of the screen.

Navigating the pages is easy

To go to the next page just press the **right** button (➡). When you reach the last page, a

Operating UniTire

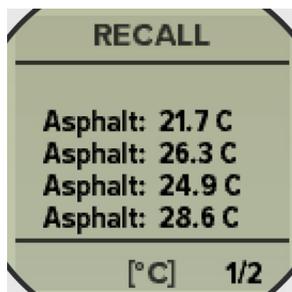
press on the **right** button (➡) will bring you to the first page again.

If you want to clear the memory, press and hold the **left** button (⬅).

To go back to sequence mode, press the **left** button (⬅) two times. First press will bring you to Transfer mode. Please read the main reference guide for more information.

Asphalt temperature is stored too

To see the asphalt temperature measured at the start of each sequence, just press a little longer on the **right** button (➡). This will toggle between asphalt temperature and tire temperature.



The recall screen will show the asphalt temperature for each sequence.

Navigation when viewing asphalt temperatures is the same as when viewing tire temperatures.

SETUP MODE

You enter Setup mode by pressing both the **left** and **right** buttons at the same time (⬅ + ➡).

You can also do this to go directly to Setup mode when turning UniTire on.

GENERAL FUNCTIONS

In Setup mode you use the **right** button (➡) to accept the value, store it in the memory and move on to the next setup screen.

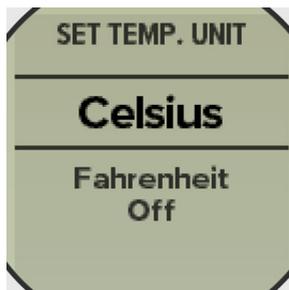
You use the **left** button (⬅) to scroll through choices, and to change or adjust the current setting.

When you are finished with the setup, you can return to the previous mode by pressing and holding both the **left** and the **right** buttons (⬅ + ➡) or turning UniTire off by pressing and holding the **right** button (➡).

All settings are stored and will not be cleared, even if you remove the batteries.

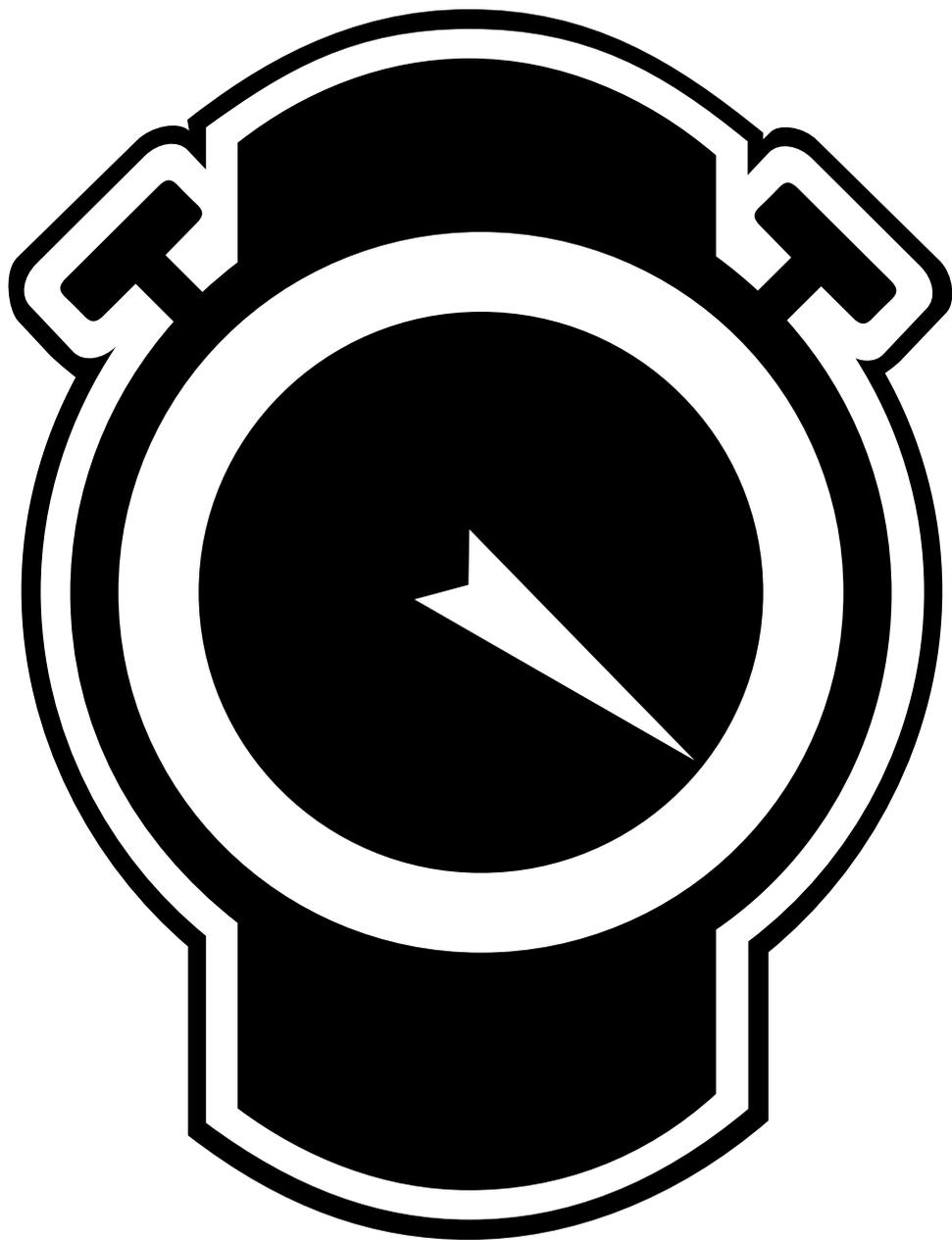
TEMPERATURE UNIT SETUP

UniTire can be set to show the temperature in either degree Celsius or degree Fahrenheit or the temperature sensor can be turned off.



The "SET TEMP. UNIT" gives you the choice between Celsius and Fahrenheit or off.

Scroll between choices by pressing the **left** button (⬅). Select and move to next setup screen by pressing the **right** button (➡).



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