

# P1 XTL Design Features

This device helps to save planet Earth!

It detects even the smallest leaks and traces the slightest amounts of the extremely climate-damaging gas SF<sub>6</sub> and other technical gases. This means that the P1 XTL can detect even a very small gas loss of 0.001g per year!

SF<sub>6</sub> is 24,000 times more harmful to the climate than CO<sub>2</sub> and remains in the atmosphere for over 3,000 years.

SF<sub>6</sub> is used worldwide primarily as an insulating and protective gas in electrical switchgear in medium and high-voltage technology.



# P1 XTL Design Features

## The Challenge

The design of the P1 XTL is characterised by the consolidation of high-tech features in an ultra-compact handheld device.

In addition to the reliability of the technology, the focus was on ensuring the best possible user experience.

P1 XTL is the first wireless device of its kind in the world, significantly increasing the convenience of leak detection in often inaccessible locations.

Operation is intuitive and, with only two main control buttons, as simple as it is technically achievable.

The control panel and the area being examined are perfectly within the user's field of vision.

The device can be operated with just one hand.



# P1 XTL Design Features

## Control panel

Acoustic alarm

Clear graphical representation  
of gas concentration



Well-structured and  
easy-to-use  
graphical touch screen display

Minimalist control panel  
can be operated with  
just one hand



# P1 XTL Design Features

## Control and feedback

Projection of the alarm  
into the operators  
field of vision (2 LEDs)



Built-in vibration alarm  
can be felt through the handle.



# P1 XTL Design Features

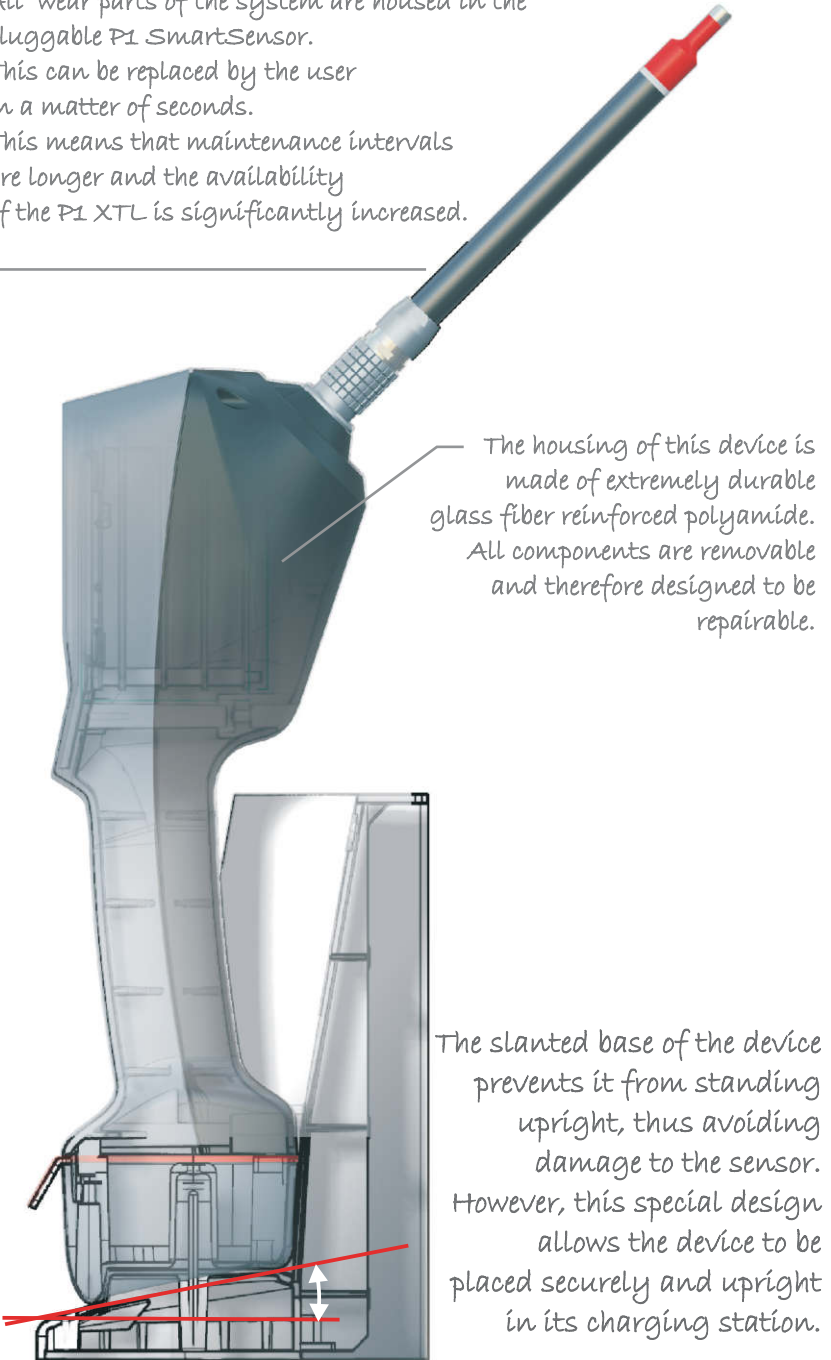
## Smart, sustainable, efficient

P1 SmartSensor - Smart and efficient.

All wear parts of the system are housed in the pluggable P1 SmartSensor.

This can be replaced by the user in a matter of seconds.

This means that maintenance intervals are longer and the availability of the P1 XTL is significantly increased.



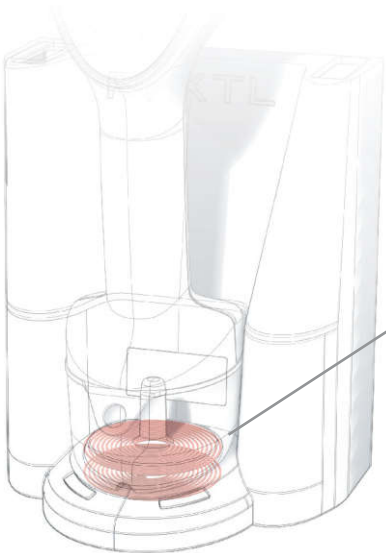
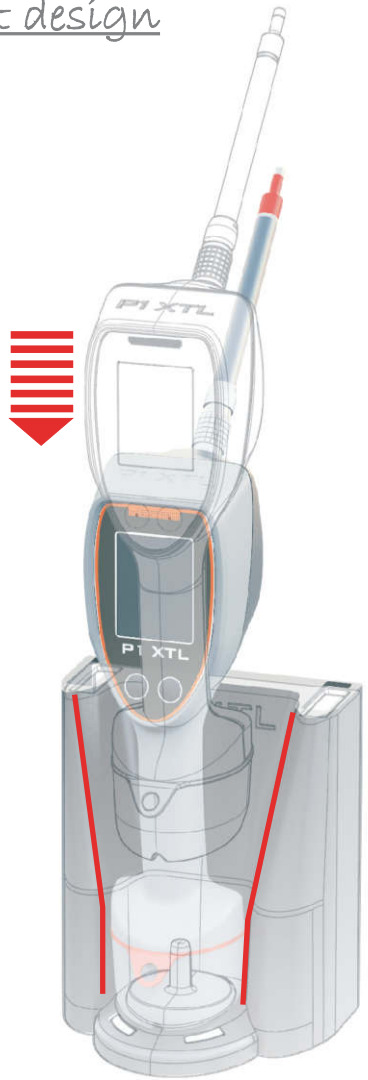
The housing of this device is made of extremely durable glass fiber reinforced polyamide. All components are removable and therefore designed to be repairable.

The slanted base of the device prevents it from standing upright, thus avoiding damage to the sensor. However, this special design allows the device to be placed securely and upright in its charging station.

# P1 XTL Design Features

## Docking stations smart design

The funnel-shaped design of the charging station allows the handheld device to slide automatically into the correct position.



The charging process starts automatically and immediately. There are no contacts that can become dirty, as the handheld device is charged inductively. This ensures permanent, maintenance-free operation.

# P1 XTL Design Features

## The Trolley

Technical device and safe transport

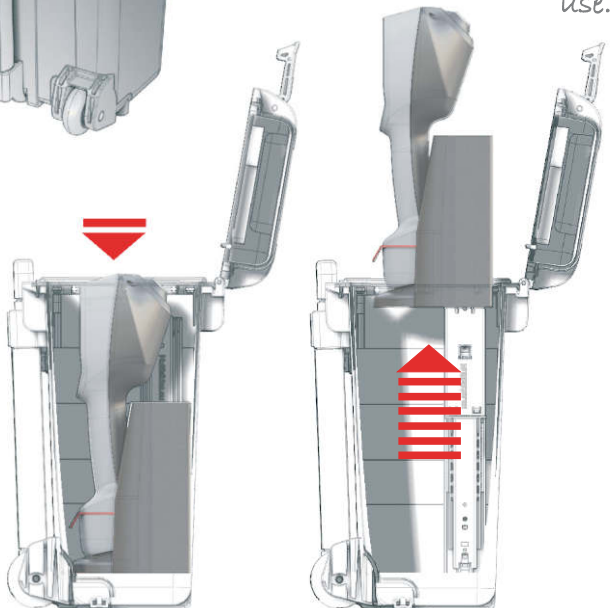
The waterproof Peli Protector Trolley ensures safe and comfortable transport of the P1 XTL.

Storage compartments for 3 P1 smart sensors and other accessories.

The charging station is integrated into the Peli Protector trolley and charges the device as soon as it is placed in the station.



A light press on the handheld device and the charging station slides out of the case. Plug in the Smart Sensor and the device is ready for use.

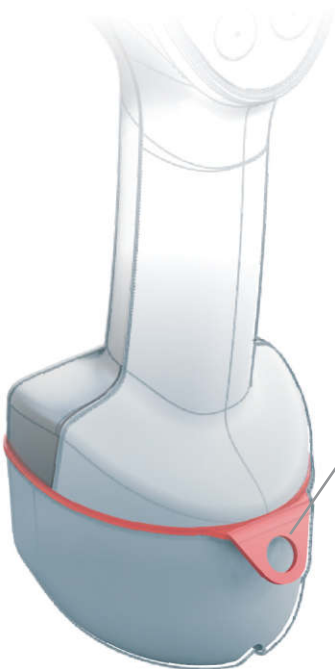


# P1 XTL Design Features

## More smart features

The special design of the P1 XTL allows it to be stored only in the charging station or laid down on its side. This protects the sensor and enables a special feature:

If required, a standby mode can be selected. As soon as the handheld device is put down, the P1 XT is completely or partially deactivated. It returns to normal operation automatically when the control unit is picked up again.



The durable aluminum ring secures the device against falling during operation.