



**FREESENSE APS**

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**FREESENSE EXPLORER** - Robust, wireless data logger  
for liquid processes

## Freeseense Explorer - Robust, wireless data logger for liquid processes

Rugged, waterproof, multi parametric data logger for use in harsh and hard to reach liquid environments. The Freeseense Explorer data logger can measure: pH, temperature, pressure, movement and acceleration.

The Freeseense Explorer can withstand temperatures of up to 125°C (257°F), a full pH range of 0-14 and pressures of up to 5 bar. All sensors have very fast response times (<1 second) and have user programmable logging intervals.

Data can be downloaded from the device wirelessly or transmitted from within a liquid using the onboard 433MHz radio transmitter and antenna receiver unit.

The Freeseense Explorer has a 200 hour operating time giving you up to 4 million individual data points. The device should be sent back to Freeseense for battery replacement and calibration when the device has run out of battery power.

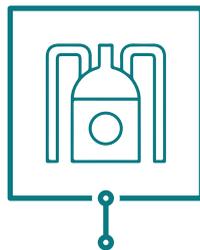
The Freeseense Explorer is well suited for use in both laboratory and other liquid production environments .



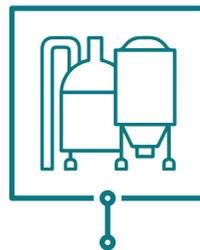
### Examples of Freeseense Explorer liquid processing application areas



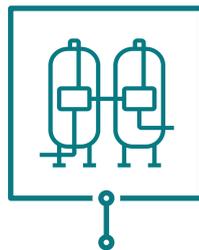
Laboratory



Pilot



Processing



Mixing

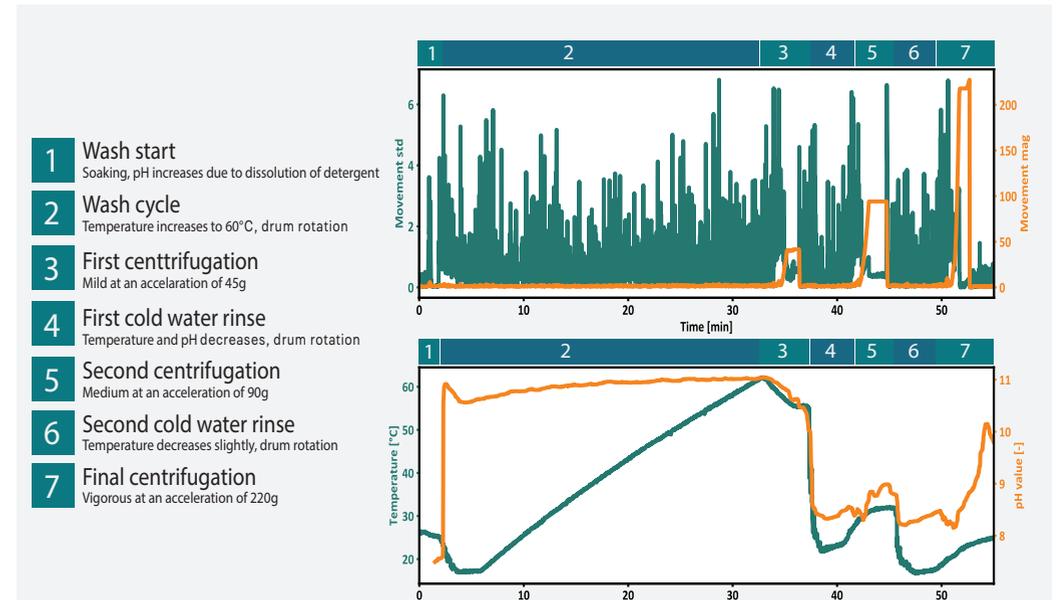
## Features

- K-type thermo couple temperature sensor
- Non-glass ISFET pH sensor
- 5 bar absolute pressure sensor
- User programmable logging interval
- High impact resistant PEEK shell
- High temperature, 3,6V non-rechargeable lithium ion battery
- Data logger and wireless modes
- Up to 4 million individual data points
- 200 hours operating time
- Wireless data download via USB dongle

### Freeseense Explorer data loggers can measure:

- ✓ pH
- ✓ Temperature
- ✓ Pressure
- ✓ Acceleration
- ✓ Movement

## Data example from a wash cycle in a standard washing machine:



### Physical specifications

<b>IP rating</b>	IP68 waterproof to 15m
<b>Operating range (temp)</b>	0-85 °C (32-185F) 0-85 °C (32-185°F)
<b>Shell dimensions</b>	45mm diameter PEEK shell
<b>Density</b>	0.9 - 1.2kg/m <sup>3</sup> (Can be set at purchase)
<b>O-ring material</b>	VITON (Fluoroelastomer)