



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



**ANALYSIS  
INSIDE**

**FREESENSE APS**

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# FREESENSE EXPLORER

## Robust, wireless data logger for liquid processes

Freesense is a leading free floating sensor technology provider for the global Bioprocess industry.

With the new cutting edge technology from Freesense, the industry can now gain more understanding of what is really happening in liquid processes where data is limited or non-existing today.

The Freesense Explorer data logger can withstand temperatures of up to 125°C, a full pH range of 0-14 and pressures of up to 5 bar. The sensors have very fast response times and have user programmable logging intervals. This device is well suited for use in both laboratory and full scale production environments.

The accompanying Freesense Explorer software lets the user set up data logging parameters as well as receive and download data wirelessly. Once downloaded, the data can be analyzed using the users' method of choice. Additionally, data can be transmitted live from within a liquid using the onboard 433MHz radio transmitter and antenna receiver unit.

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

The novel data set collected using the Freesense Explorer data loggers can give the user new insights into processes where monitoring was previously unavailable or difficult to conduct.



## Freesense Explorer wireless data loggers can measure:



Temperature

pH

Pressure

Movement

Acceleration

## ✓ FACTS

- ⊖ The Freesense Explorer is 45 mm in diameter
- ⊖ Made of Polyether Ether Ketone (PEEK)
- ⊖ Very robust and can withstand impacts
- ⊖ Can survive a 125°C autoclave process as well as CIP/SIP
- ⊖ Powered by a lithium-ion high temperature resistant battery
- ⊖ Up to 200 hours operating time or 4 million individual data points\*

\*At ambient temperature and dependent on sample rate set by user