



Wireless temperature/level sensor

Continuous monitoring of high value cryogenic samples is not only good laboratory practice, but also often a regulatory requirement.

This new wireless temperature and level sensor combines accurate temperature measurement in liquid nitrogen storage vessels with liquid level monitoring – helping scientists to ensure stored cells and tissues are maintained in an optimal environment.

This latest addition to our expansive range of monitoring sensors give users the flexibility of wireless temperature and level monitoring in addition to the popular wired version. Incorporating a high accuracy Pt100 platinum sensor, this option provides $\pm 0.3^{\circ}\text{C}$ precision measurement between $+150^{\circ}\text{C}$ and -200°C .

Unlike traditional thermocouple measuring devices, the new wireless temperature/level sensor is not subject to recorded drift after calibration, meaning the sensors stay more accurate for longer between service visits.

The sensor is installed at a user defined height and will produce an alarm if the level falls below this point. This provides the user with 24/7 temperature and liquid nitrogen level monitoring and provides clear traceability that samples have been stored in optimal conditions.

- **Easy Installation**
No requirement for cork drilling with an adjustable sensor shape
- **Reliable Operation**
Independent battery power supply for continuous monitoring
- **Convenience**
Wireless connectivity allows dewar/sensor movement without interruption
- **Durable**
Sensor moulded around contour of dewar reduces chance of damage

Want to find out more about monitoring? enquiries@planer.com



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Sensor Type	Dual level and Platinum Resistance Thermometer 100
Battery Life	Five years for temperature and one year for level
Suitability	Any aluminium LN2 tank. Can be any length, standard lengths are 450mm and 750mm
Compatibility	DATAcentre range of monitoring, up to 120 per system
Temperature Range	-200°C to + 150°C
Temperature accuracy	±0.3°C at 0°C, ±2.04 at -200°C
Calibration	Annually
Mounting	No drilling of cork; mounted around the neck. Battery pack mounted using strapping
Installation	Can be performed with fully working tank full with samples
Transmission Range	Approximately 100m. Depends on number of walls, wall construction, etc.
Data	Can be viewed via base station or over network PC, tablet or phone

Temperature/level sensors are now available for both wired and wireless ReAssure configurations. Wired systems benefit from utilising the users existing IT infrastructure while wireless systems provide a smaller installation footprint and are unaffected by local network interruptions. Users also can benefit from hybrid systems to best meet their requirements.



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