



A new generation of PAT sensors

Telstar develops a pioneering single-use real-time sublimation front monitoring system for GMP freeze-dryers

Telstar has developed a new sensor capable of monitoring the advance of the sublimation front in real time for GMP freeze-drying processes. A single-use probe, containing 5 independent temperature sensors with wireless communication is placed within the vial, able to monitor the advance of the sublimation front accurately, key to optimizing the primary drying steps in lyophilization processes.

Sublime probes are coated with an FDA-approved material and are available in 5 different formats to fit into any vial size from 2R to 100R. A single system can hold up to 50 probes per freeze drying batch. Without cables or batteries, the probes work via a patented wireless power transmission technology, have a reading interval of 1 minute and can work seamlessly between -60°C and +60°C. These probes are also conveniently designed as a single-use device.

Telstar at INTERPHEX (**NYC April 25-26, 2023**). **Booth 2453**

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