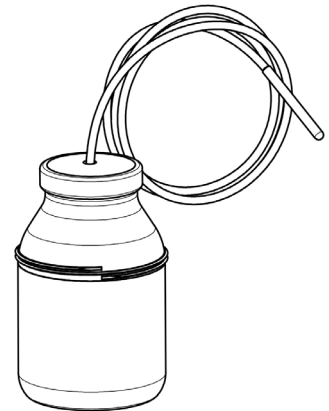
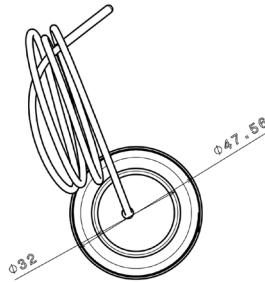
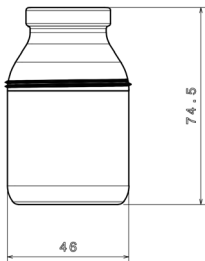


## Matryoshka Real Time Wireless Temperature Data Logger with Flexible Sensor -90°C to +140°C

- + 70 ml vial shaped logger, compatible with 150, 250 and 500 ml fake vials
- + Collects and transmits real time temperature to XpertLog Software
- + ITS-90 calibration coefficients are stored in the internal memory
- + Complies with FDA 21 CFR Part 11
- + Network ready: multiple users, centralized, server database, active directory authentication
- + Calibration can be performed on site

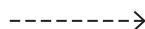


Sensor type	4 wires PT-100
- flexible	430 mm (17")
- customized	up to 5000 mm (195")
- Sensor size	1.5 x 8 mm (0.06 x 0.315")
- cross section	1.77 mm <sup>2</sup> (0.0027 inch <sup>2</sup> )
Operating Range	
- body	-90°C to +140°C
- Sensor	-200°C to +200°C
Accuracy	±0.1°C from -90°C to 140°C
Resolution	0.01°C
Memory capacity	32,000 data points
Memory type	non volatile
Sampling rate	1 sec to 24 hours
Transmission	simultaneous: maximum 20 loggers
	sequential: unlimited
Internal clock drift	4 sec / 24 h @ 23°C
Mechanical	
- material	Peek 1000 - FDA compliant
- enclosure	IP-68
- weight	100g (3.53 oz)
- diameter	46 mm (1.81")
- height	74.5 mm (2.93")
Power	2 x Lithium batteries, 0.35 g/each Lithium content classified UN3091 under IATA DGR section 3.9.2.6 compliant with ICAO/IATA packing instructions 970, user replaceable Up to 6 months, based on usage
Battery lifetime	Internal
Antenna	121 m (400 feet)
Wireless range	2.4 Ghz ISM band
Radio frequency	USB to computer
Access point	Programs and reads unlimited number of loggers
Calibrations	Factory Calibrations: traceable NIST/COFRAC - ITS-90 coefficients stored in the internal memory User Calibrations: closed loop calibration using XpertLog® software
Certification	Health Safety: EN 60950-1 / 2006 EMC: EN 60601-1-2 / 2007 RF: EN 300440-2 v1.3.1 (2009-03)

Order Reference  
GMP-RF-F-MTR70ml

### Standard Calibration Points

- -80°C
- 0°C
- 140°C



XpertLog  
software

