

Technical Specifications

smarTprobe

Probe Sensing

Sensing Range	-20 to 100	°C
Accuracy over entire range	±0.5	°C
Sensor Technology	PT-100 PRT	
Minimum battery life (4 readings per hour)	12	months
Battery operating temperature range	-20 to 55	°C
Minimum reading interval	20	s

Probe Mechanical

Environmental protection	IP65	
Storage & operating temperature (head)	-20 to 60	°C
Body material	316 stainless steel	
Head connecting gland material	Nickel-plated brass	
Handle plates, nut, and bolt material	A2 Stainless steel	
Body wall thickness	3	mm
Body outer diameter	21.3	mm
Handle length (each handle)	80	mm
Head tightening torque	25	Nm
Probe lengths (standard)	1.5, 2	m

Wireless Networking

Operating frequency band	868*	MHz
Recommended maximum hop distance	85	m
Network topography	Mesh or asynchronous	
Maximum number of units per network	>100	

2G Gateway

Modem module	2G module with external antenna	
SIM card	Roaming type supplied	
Battery Backup minimum	24	hours
Power supply voltage (mains adapter)	100 to 240	VAC
Power supply current	0.6	A
Multi-plug heads supplied	UK, Euro, USA	
SD card data backup	16GB (approx. 250 million readings)	

Repeater

Supply voltage	5 to 24	VDC
Supply cable outer diameter	3 to 6.5	mm
Current Draw (awake)	30	mA

* Other frequencies are available for non-European markets: please contact Freeland Scientific for details