

## Technical Specifications

### Probe Sensing

|                                            |            |        |
|--------------------------------------------|------------|--------|
| Sensing Range                              | -50 to 200 | °C     |
| Accuracy over entire range                 | ±0.5       | °C     |
| Sensor Technology                          | PT-100 PRT |        |
| Minimum battery life (2 readings per hour) | 12         | months |
| Battery operating temperature range        | -40 to 60  | °C     |
| Minimum reading interval                   | 20         | s      |

### Probe Mechanical

|                             |                    |    |
|-----------------------------|--------------------|----|
| Environmental protection    | IP68               |    |
| Body material               | A2 stainless steel |    |
| Body wall thickness         | 3                  | mm |
| Body outer diameter         | 21.3               | mm |
| Handle length (each handle) | 80                 | mm |
| Probe lengths (standard)    | 1.5, 2             | m  |

### Wireless Networking

|                                     |      |     |
|-------------------------------------|------|-----|
| Operating frequency band            | 868* | MHz |
| Range (outdoor, line of sight)      | 1    | km  |
| Network topography                  | mesh |     |
| Maximum number of units per network | >100 |     |

### PC / Software<sup>†</sup>

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Operating system                      | Windows 7 onwards with admin login        |
| Wireless network interface connection | 1 spare USB port                          |
| Data collection application           | Local Windows service                     |
| Data viewing application              | Windows application                       |
| Data storage                          | Secure online database with daily backups |

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

<sup>†</sup> A 2G gateway is currently under development for use in areas with mobile phone coverage: this gateway operates without the need for a PC.

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