

21 THINGS TO CONSIDER BEFORE BUYING A WIRELESS TEMPERATURE MONITORING SYSTEM

Technical Checklist
IS-CL-001 V4.0



| No. | Question to Consider | Question Comment | Your Notes |
|-----|---|--|------------|
| 1 | Does the system need to meet regulatory or quality standards? | Look for systems that support MHRA, GxP, BRCGS, HACCP, SALSA or any other compliance. | |
| 2 | How many storage areas or devices do you need to monitor? | Think about fridges, freezers, warehouses, incubators, and any other critical zones. | |
| 3 | Do you need multiple sensors per location? | For some compliance a risk assessment or temperature mapping may require you to place a sensor in the Hot and Cold spot within the temperature-controlled unit | |
| 4 | Does the sensor require internal memory? | For a compliant system we would recommend all sensors have internal memory to enable data redundancy, most continuous systems will use a 'Back-fill' mechanism to retrieve the data if the sensor temporarily drops off the network. | |
| 5 | Are user-replaceable batteries a priority? | Most temperature monitoring system sensors have replaceable batteries, usually AA batteries | |
| 6 | Will you need a calibration certificate? | Options include ISO 17025 or certificates traceable to ISO standards. | |
| 7 | What wireless technology is best for your environment? | There are a few popular options in the UK include 433 MHz RF, 868 MHz RF/LoraWAN , and 2.4 GHz WiFi . | |

If you think we have missed a question or consideration please do give us a call on +44 (0)1494 792602 or email us: hello@isatec.co.uk

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| 8 | Have you tested the signal range in your facility? | Most providers will ask for a site plan and potentially a signal range survey, we recommend you do this. | |
| 9 | Do you prefer a cloud-based or on-premises software solution? | Which do you prefer? If, in doubt ask your IT department or 3rd party IT company if. | |
| 10 | Should the system include a database or be standalone? | Again, what do you prefer? If, in doubt ask your IT department or 3rd party IT company if there are any company IT limitations you need to consider. | |
| 11 | Will it need to scale across multiple sites? | If you have multiple site that you need to monitor, investigate systems that can accommodate this. Again, talk to your IT people to see if this is feasible foy your business. | |
| 12 | Is a battery backup necessary, and how long should it last? | In most regulatory sectors a method of storing data whilst no power is applied is the requirement. Carry out a Risk assessment of your business to see how long the system could potentially be without power. Be practical with your assessment. | |
| 13 | How many users will access the system, and from where? | Users who access the system and respond to alarms should have unique accounts to the system. | |
| 14 | Are remote alerts required (Email or SMS)? | Draw out your alarm process and see what alarms are required, then when and who should be sent to. | |

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| 15 | Is system validation required (IQ/OQ)? | Essential for GxP environments. | |
| 16 | Should it produce automated reports (PDFs, exception logs)? | Most comprehensive systems will have this feature | |
| 17 | What are your data retention requirements? | Think 5+ years and secure storage options. | |
| 18 | Is system validation required (IQ/OQ)? | Essential for GxP environments. | |
| 19 | Do you want professional installation and configuration? | Yes, it is recommended you use the installation service as the engineers are more familiar with the wireless signal and can provide training at the same time. | |
| 20 | Will you need ongoing support and calibration services? | Yes, it is recommended | |
| 21 | Do you have a defined budget? | Set a budget, there are systems for all applications and budgets. | |

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