



# Fourtec – Fourier Technologies

# Catalog 2025





# About Fourtec

Fourtec is a leading developer of data logging systems, offering a variety of solutions, with Wifi & BLE data loggers, for precise Temperature and Humidity monitoring

For over 30 years, Fourtec has provided high-quality, simple to operate, and value for money solutions that cater a wide range of applications.

From electronic, semiconductors and industrial manufacturers to pharmaceutical manufacturing sites, pharmacies, hospitals and laboratories, food manufacturers and food processing companies, warehousing, transportation, logistics and many more. Our most fast moving and requested products can be found at the world's leading companies, research centers, and universities as well as in many other industries and companies.



## Why Us?



Value for money,  
simple to operate and  
reliable solutions



All products can be  
implemented in multiple  
market segment



Products development  
in accordance with FDA  
regulations and standards



In-house software  
development for a unique  
data collection and  
analysis app / dashboard



Professional Customer  
Support team



30 years of experience  
and thousands of global  
users and loyal customers

# Our solutions

for the cold chain and manufacturing process



Food  
Manufacturing



Universities  
& Research  
Centers



Warehouse  
& Museums



Catering, Ready  
Meal Kits, Services  
& Hospitality



Pharmaceutical  
Manufacturing  
Sites



Industrial  
Applications



Agriculture &  
Aquaculture Pre  
& Post Harvest



Pharmacies



Wholesale  
& Retail



Hospital  
Environments



Laboratories



Export, In-land &  
Last Mile Delivery  
Transportation



# Some of Our End Customers

## Pharmaceutical, Medical Centers & Universities



## Food and Food Processing

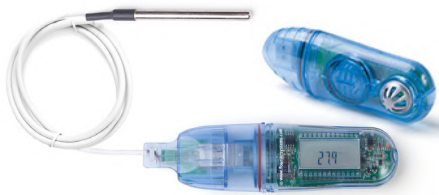


## Industry, Government and State Agencies





# Product Line



## MicroLite Family

Wide range of accurate, portable, multi-trip cablefree Temperature and Humidity USB loggers for electronic, semiconductors and industrial manufacturers, pharmaceuticals manufacturing sites, laboratories, food and food processing, cold rooms, communication rooms and shipment.

Compatible with FourtecLite App for Android devices



## MicroLogPRO Family

A multi- functional Temperature and Humidity data logger for various pharmaceutical, industrial and supply chain applications, storage, cold rooms, computers and communication rooms.

Compatible with FourtecLite App for Android devices



## MicroAirWIFI

The MicroAir WiFi Logger is a reliable, real-time monitoring solution with built-in Temperature and Humidity sensors and an external input for NTC temperature sensors.



## DataNet Family

Multi-point, real time, wireless Temperature and Humidity monitoring system with easy deployment for stationary environments, hospitals environments, museums, production floors, pharma industry, and warehouses.



## BluLite

A Bluetooth Low Energy Temperature and Humidity data logger, suitable for the cold chain and supply chain monitoring process: pharmacies, laboratories, storage and transportation.

Compatible with FourtecLite App for Android devices



## Dry Ice Logger

Dry ice Temperature USB logger for pharmaceuticals (vaccine and drugs storage and shipment), refrigerators, laboratories, and cold rooms.



## PicoLite

Limited-use Temperature logger for the cold chain processes, long range transportation and last mile delivery.

Compatible with FourtecLite App for Android devices



## SingleRide

Single -trip low cost PDF logger. Small, light, waterproof, and packed in a food safe wrapper, for monitoring Temperature in in-land and last mile delivery and transportation.

# MicroLite

Portable cable free USB loggers

**Measurement Temperature range:** -40°C to 80°C (-40°F to 176°F)

**Humidity range:** 5% to 95%

Available also with external needle/round temperature probe allowing wide measurement range of -50°C to 150 °C (-58°F to 302°F)

- Up to 32K samples memory capacity
- Direct USB interface
- Free license to use for the DataSuite software and FourtecLite Android app
- Boomerang feature for automatic data abnormalities PDF report
- LED for alarm and sampling indication
- LCD battery display
- Replaceable battery
- Magnet key for stand-alone logger activation
- Dust and water resistant IP67/IP54 (depending on logger model)
- Cradle for wall mounting



MicroLite III Temperature



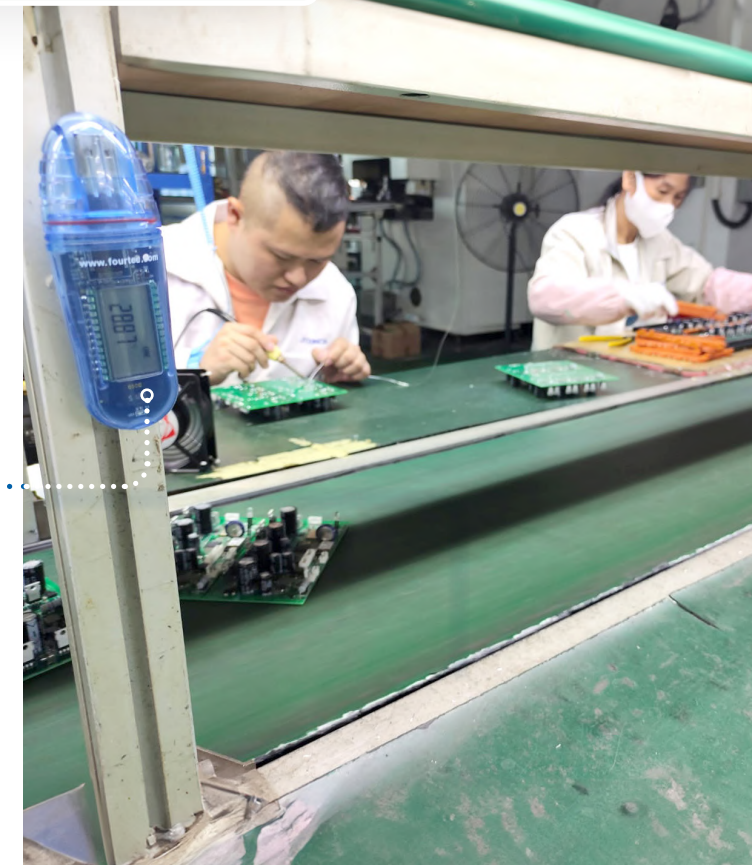
MicroLite III Temperature & RH



MicroLite III NTC



Compatible with the DataSuite software for desktop and FourtecLite app for Android devices



## Solutions



Food  
Manufacturing



Catering, Ready  
Meal Kits, Services  
& Hospitality



Agriculture &  
Aquaculture Pre &  
Post Harvesting



Hospital  
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Pharmaceutical  
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Transportation



# MicroLogPRO

## Environmental monitoring

**Measurement Temperature range:** -40° to 80 °C (-40°F to 176°F)

**Humidity range:** 5% to 95%

Available with external input for NTC Temperature sensor

-50°C to 150 °C (-58°F to 302°F)

- Up to 52k samples memory capacity
- Mini-USB port for PC communication and firmware updates
- Free license for the DataSuite software and FourtecLite Android app
- Boomerang feature for automatic PDF data report
- Multi-function keypad for manual time stamp, run/stop activation
- Built-in LED for logging and alarm indication
- 4-digit data display
- LCD battery display, replaceable battery
- Water and dust-resistant IP54/NEMA 4



MicroLogPRO III Temperature



MicroLogPRO III Temperature & RH



Available with external NTC probe



Compatible with the DataSuite software for desktop and FourtecLite app for Android devices



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# MicroAir WiFi

Real-Time Monitoring for Temperature and Humidity

NEW



Compatible with the DataSuite software for desktop and FourtecLite app for Android devices

**Measurement Temperature range:** -40° to 80 °C (-40°F to 176°F)

**Humidity range:** 5% to 95%

Available with external input for NTC Temperature sensor  
-50°C to 150 °C (-58°F to 302°F)

- Up to 52k samples memory capacity
- Mini-USB port for PC communication and firmware updates
- Free license for the DataSuite software and FourtecLite Android app
- Boomerang feature for automatic PDF data report
- Real time monitoring via DataSuite software
- Connectivity: Wi-Fi 802.11 b/g/n
- Multi-function keypad for manual time stamp, run/stop activation
- Built-in LED for logging and alarm indication  
LCD: Four-digit, 7-segment display with decimal points  
LED: Bi-color alarm indicator
- LCD battery display, rechargeable battery
- Water and dust-resistant IP54/NEMA 4



Available with external NTC probe



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# BluLite

A Bluetooth Temperature & Humidity data logger

**Measurement temperature range:** -20°C to 60°C  
(-4°F to 140°F)  
**Humidity range:** 0% to 90%

- Up to 32K samples memory capacity
- Bluetooth Low Energy (5.0) connectivity
- LCD alarm indication with key parameters information
- Free license to use for the DataSuite software and FourtecLite data
- Boomerang feature for automatic PDF data report
- Real time monitoring via DataSuite software
- Replaceable battery
- Water and dust resistant IP54



Compatible with the DataSuite software for desktop and FourtecLite app for Android devices



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Transportation

# DataNet

Multi-point realtime wireless data monitoring network

**Measurement operation range:** -20°C to 50°C (-4°F to 122°F) temperature range and 5% to 95% humidity range  
Additional PT100 sensors allow measuring within the range from -200°C to 400 °C (-328°F to 752°F)  
Additional various thermocouple types allow measuring within the range from -200°C to 1000 °C (-328°F to 1832°F)  
Voltage and current inputs to be used with vast variety of sensors by other producers

- Wireless infrastructure suitable for multiple industrial and storage applications
- Multiple network management from single workstation or via LAN for long range monitoring
- Real-time monitoring system with ZigBee wireless technology
- Robust network with auto-rerouting, data recovery, and long-range transmission
- Boomerang feature for automatic PDF data report
- RF loggers measuring temperature, voltage, current, pulse, frequency, and dry contact
- Operates on 2.4 GHz RF frequency
- Units can also serve as a transmission repeater
- Low power consumption for long battery life of the logger
- System alarm notifications via SMS, email, and external siren

DataNet  
Receiver/Repeater

DNR900A



DataNet Wireless  
Temperature Logger

DNL910A



Temperature &  
Humidity Probe



Thermocouple  
Type K



PT-100  
external probe



## Solutions



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Industrial Applications



Wholesale & Retail



# SingleRide

Single-trip low cost Temperature PDF logger



**Measurement range :** -30°C to 70 °C (-22°F to 158°F)

- 8,640 samples memory capacity
- Activation button to start logging
- USB interface for PC & MAC communication
- Six-month battery life at one minute sample. One-year battery shelf life under applicable environment conditions.
- LED status and alarm indication
- Generates PDF graphic report without a need for software and driver
- Predefined time zone and sampling rate
- Water and dust resistant IP67 with seal bag

## Solutions



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Pre &  
Post Harvest



Wholesale & Retail



Export, In-land & Last  
Mile Delivery Transportation

# PicoLite

Limited trips Temperature logger



Compatible with the DataSuite software for desktop and FourtecLite app for Android devices

Measurement range : -40°C to 80°C (-40°F to 176°F)

- Up to 16k samples memory capacity
- Direct USB interface for PC communication
- Free license to use for the DataSuite software and FourtecLite data
- Boomerang for automatic PDF data report
- Activation button to start logging and marking time stamps
- Built-in bi-color LED for logging and immediate alarm indication
- 6-month battery life (at one minute sampling)
- Water and dust resistant IP67



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Pharmacies



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Export, In-land & Last Mile  
Delivery Transportation



# Dry Ice Logger

Extra-low Temperature PDF data logger

**Measurement range :** -80°C to 70 °C (-112°F to 158°F)

- 17,280 samples memory capacity
- Replaceable battery
- Activation button to start logging
- USB interface for PC & MAC communication
- Built-in LED for logging and alarm indication
- User defined Alarm Levels, Sample Rate, and Time Zone settings
- Water and dust resistant IP67



## Solutions



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## Software Solutions

# DataSuite

Feature-rich, intuitive, data analysis software

### Features:



Display up to 14 loggers simultaneously



Data displayed in graphical and tabular formats



Lifetime data track of all the loggers' measurements



Boomerang Report- sends automatic emails to pre-defined recipients with a report of the data loggers' recorded data (temperature and humidity) and abnormalities report



Time Stamps- Analyze specific events in time that were marked by the user on the logger itself, called Time Stamps.



Logger setup and calibration- perform calibration, update firmware, name the logger, define temperature scale, cyclic run, push to run, timer run, sampling rate, etc.



Print or export the data to excel for further analysis or regulations requirements



Friendly and intuitive interface for data monitoring and analysis



Developed in accordance to FDA requirements



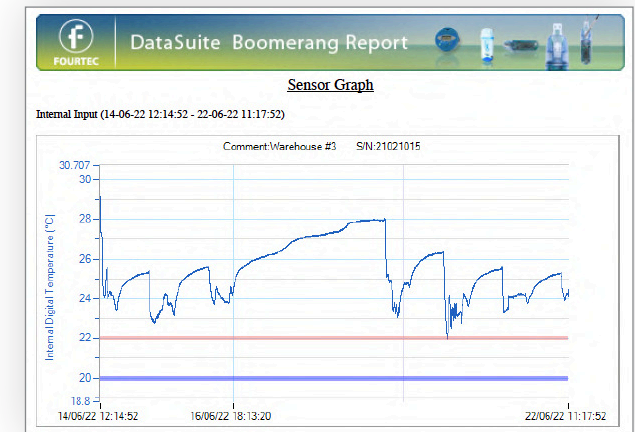
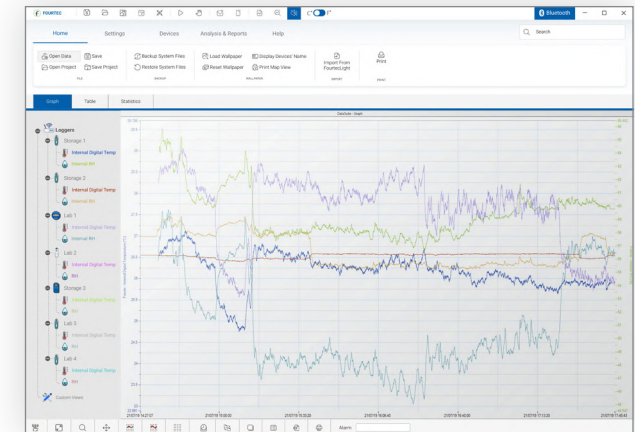
**Free** license to use with software updates and upgrades



Cyclic run - A continuous data sampling process where, upon reaching memory capacity, the system overwrites the oldest recorded data with new incoming data



Timer run - Start data recording at a predetermined time, as set by the user or system schedule



Index	Date and Time	Internal Digital Temperature 21021015 Warehouse #3	Internal RH 21021015 Warehouse #3	Internal NTC (ML II) 20042009 CleanRoom #1	Poizote II Temperature 20101202 Warehouse #2
25	16-05-22 15:57:00	25.04°C	48.48%	27.46°C	25.50°C
26	16-05-22 16:00:00	25.08°C	48.11%	27.58°C	25.50°C
27	16-05-22 16:05:00	25.15°C	49.36%	27.55°C	25.50°C
28	16-05-22 16:00:00	25.16°C	49.32%	27.58°C	25.50°C
29	16-05-22 16:01:00	25.21°C	49.49%	27.63°C	25.50°C
30	16-05-22 16:02:00	25.22°C	49.75%	27.66°C	25.50°C
31	16-05-22 16:03:00	25.24°C	49.72%	27.69°C	25.50°C
32	16-05-22 16:04:00	25.34°C	49.71%	27.74°C	25.50°C
33	16-05-22 16:05:00	25.37°C	49.74%	27.75°C	25.50°C
34	16-05-22 16:06:00	25.38°C	49.91%	27.77°C	25.50°C
35	16-05-22 16:07:00	25.41°C	49.59%	27.81°C	25.50°C
36	16-05-22 16:08:00	25.44°C	49.39%	27.86°C	25.50°C
37	16-05-22 16:09:00	25.48°C	49.42%	27.89°C	25.50°C
38	16-05-22 16:10:00	25.51°C	49.42%	27.92°C	25.50°C
39	16-05-22 16:11:00	25.58°C	49.22%	27.98°C	25.50°C
40	16-05-22 16:12:00	25.60°C	49.16%	27.99°C	25.50°C
41	16-05-22 16:13:00	25.61°C	49.26%	28.05°C	26.00°C



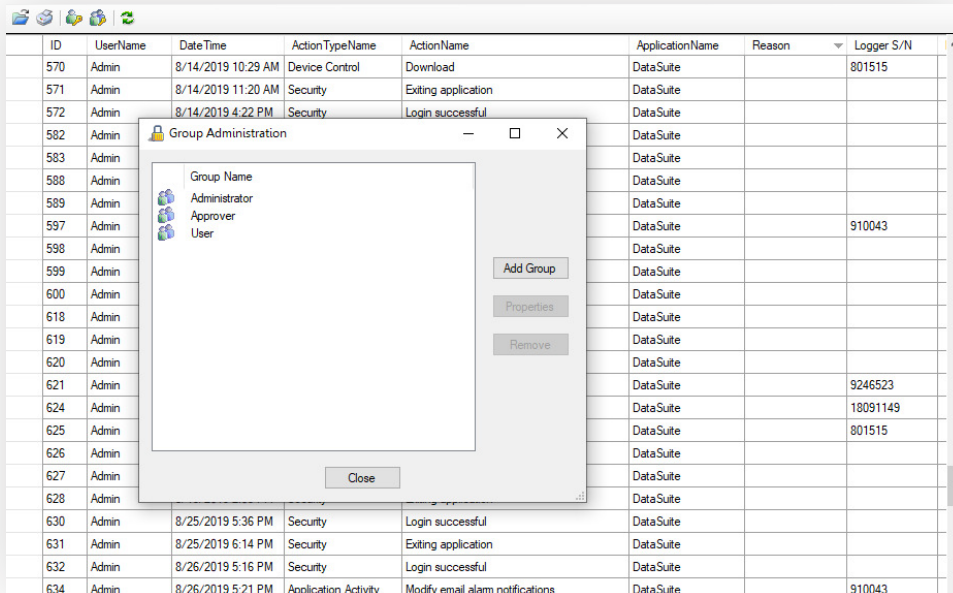
## Software Solutions

# DatPass CFR

## Administration Management Software

Facilitated for administration management and creation of different user hierarchies within the software.

- FDA 21 CFR Part 11 and GAMP 5 compliancy
- Install on a local PC or network
- Record all user activity
- Manages user access to supported systems
- Keeps an audit trail that automatically records any user activity within DatPass, and supported Fourtec software.
- The audit trail shows who has accessed the system and what operations they have performed, marked with a date & time stamp of the activity and tracking of invalid logins to the system



ID	UserName	Date Time	Action TypeName	Action Name	Application Name	Reason	Logger S/N
570	Admin	8/14/2019 10:29 AM	Device Control	Download	DataSuite		801515
571	Admin	8/14/2019 11:20 AM	Security	Exiting application	DataSuite		
572	Admin	8/14/2019 4:22 PM	Security	Login successful	DataSuite		
582	Admin				DataSuite		
583	Admin				DataSuite		
588	Admin				DataSuite		
589	Admin				DataSuite		
597	Admin				DataSuite		910043
598	Admin				DataSuite		
599	Admin				DataSuite		
600	Admin				DataSuite		
618	Admin				DataSuite		
619	Admin				DataSuite		
620	Admin				DataSuite		
621	Admin				DataSuite		9246523
624	Admin				DataSuite		18091149
625	Admin				DataSuite		801515
626	Admin				DataSuite		
627	Admin				DataSuite		
628	Admin				DataSuite		
630	Admin	8/25/2019 5:36 PM	Security	Login successful	DataSuite		
631	Admin	8/25/2019 6:14 PM	Security	Exiting application	DataSuite		
632	Admin	8/26/2019 5:16 PM	Security	Login successful	DataSuite		
634	Admin	8/26/2019 5:21 PM	Application Activity	Modify email alarm notifications	DataSuite		910043

Group Name
Administrator
Approver
User

Buttons: Add Group, Properties, Remove, Close



## Software Solutions

# FourtecLite

## Android Devices Application

### Features:



Easy, convient portable data monitoring solution from everywhere



Send email notifications of data abnormalities



Present and download real time data from your data logger



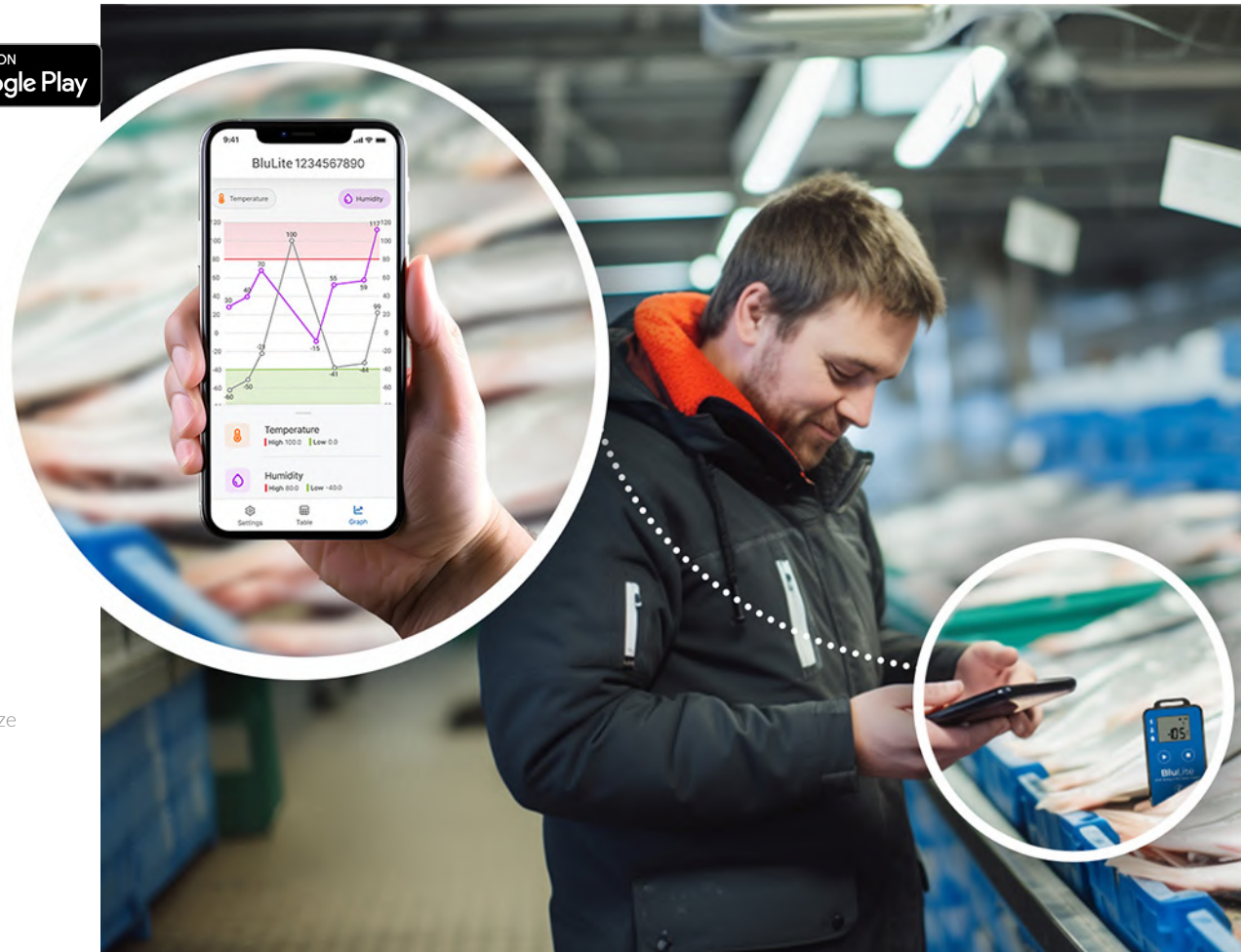
Boomerang Report- a feature that sends end users an automatic pre-defined report of the data loggers' recorded data (temperature and humidity) and abnormalities report.



Keep your data updated wherever you go on your logger, PC and android device



Define and customize your logger from everywhere



The app supports the following devices:



MicroLite III Temperature



MicroLite III  
Temperature & RH



MicroLite III NTC



MicroLogPro III  
Temperature



MicroLogPro III  
Temperature & RH



MicroAir



PicoLite



BluLite

Some features of FourtecLite may not be compatible with all loggers; refer to the user guide to confirm the relevant features for your device



# External Sensors



**Replacement NTC Temperature**

**General specification**

- NTC 10kΩ
- Range: -50°C to 150 °C
- Needle length: 100 mm
- Cable length: 1.5 m
- Two wires connector
- Includes cable strain relief

Round probe DT332R	Needle probe DT332N	Needle probe with Teflon cable DT332N-C
<b>Range:</b> -50°C to 150°C	<b>Range:</b> -50°C to 150°C	<b>Range:</b> -65°C to 250°C
MicroLite	MicroLite   DataNet	MicroLite   DataNet



**External Temperature round probe**

	DT093A	DT132A
<b>Range:</b>	MicroLog: -50°C to 110 °C MicroLogPRO III: -50°C to 150°C	MicroLog: -50°C to 110 °C MicroLogPRO III: -50 to 150 °C
<b>Probe length:</b>	100 mm	100 mm
<b>Cable length:</b>	8 m	1.5 m

Microlog | MicroAir



**External Temperature  
needle probe**

DT132N	
<b>Range:</b>	MicroLog: -50°C to 110°C MicroLogPRO III: -50°C to 150°C
<b>Probe length:</b>	100mm
<b>Cable length:</b>	1.5m

Microlog | MicroAir



**Replacement Mini USB  
communication cable**

**13248**

- Cable length: 1 m
- 5-pin Mini USB to A Type

Microlog | MicroAir | DataNet

# DataNet Sensors



**PT-100 sensor (2-wires)**

Part Number	12753	12752	12751	50116
Prob Range:	-70°C to 400°C	-70°C to 400°C	-70°C to 400°C	200°C to 400°C
Probe length:	80mm	80mm	80mm	80mm
Teflon cable range:	-65°C to 200°C	-65°C to 200°C	-65°C to 200°C	-65°C to 200°C
Teflon Cable length:	2.5m	4m	6m	2.5m



**Thermocouple Type K**

50165	
Range:	-200°C to 1000°C
Cable length:	500 mm
Probe diameter:	1.5 mm
Flat pin connector	



**Temperature & Humidity Probe**




DT043	
RH:	0% to 100% ±1.5%
Temperature:	-40°C to 60°C, ± 0.5°C
cable length:	1.5m
Flat pin connector	



## Accessories

				
<b>Replacement Magnet Key</b>	<b>Replacement O-ring</b> Two O-rings per order	<b>Replacement Cradle for Wall Mounting</b> Includes screws and screw anchors	<b>Replacement Terminal Block</b>	<b>Calibration Certificate</b>
11597	13052	50115	11506	11199
MicroLite	MicroLite	MicroLite	MicroLite   DataNet	MicroLite   MicroLog   MicroAir Picolite   DryIce   BlueLite

## DataNet Accessories

	<b>13750</b> <ul style="list-style-type: none"><li>Allows USB Devices to be used and shared over LAN</li><li>For remote logging, where PC connection is not possible</li><li>Four USB ports</li></ul>		<b>13825A</b> <ul style="list-style-type: none"><li>Connects to DNR900 or DNL9xx</li><li>LED strobe light</li><li>110 dB Siren (can be disabled)</li><li>External 12 V universal power supply included</li></ul>		<b>AD001</b> <p>For DNR900, DNR800, DNL9xx units</p>
<b>USB over IP Ethernet Adapter</b>		<b>External Siren + Strobe Alarm</b>		<b>Replacement 100/240 V, 12 VDC Universal power supply</b> (for European, Australian, USA, UKplugs)	

# Quality Assurance & Regulatory Compliance

At Fourtec, we acknowledge that in order to succeed in a competitive arena, we must provide reliable and efficient customer service, and ensure that all products produced by the company are of the highest quality. For this purpose, we have established a Quality Management System that meets the requirements of ISO 9001 and ISO 14001

- Our Quality Management System is designed to ensure customer satisfaction, maintaining company efficiency and productivity.
- We are committed to take all necessary measures to ensure a continuous and lasting process of enhancements in the products and services supplied to our customers.
- Highly professional Customer Support, monitored by a service call management system that analyzes all calls.

**Fourtec products are also compliant with the following regulations-**



#### **HACCP Validation**

Hazard analysis and critical control points systematic preventive approach to food safety and biological, chemical, and physical hazards in production processes.



#### **EN 12830**

Tests the performance and suitability of temperature recorders for the transport, storage, and distribution of chilled, frozen, deep-frozen/ quick-frozen food and ice cream.



#### **ISO Certification**

Management system standards: ISO 9001: 2015 and ISO 14001: 2015.





**FDA**

# The USA FDA Food Safety Modernization Act (FSMA)

The FDA final rule on Requirements for Additional Traceability Records for Certain Foods (Food Traceability Final Rule) establishes traceability recordkeeping requirements for companies who manufacture, process, pack, or hold foods included on the Food Traceability List (FTL).

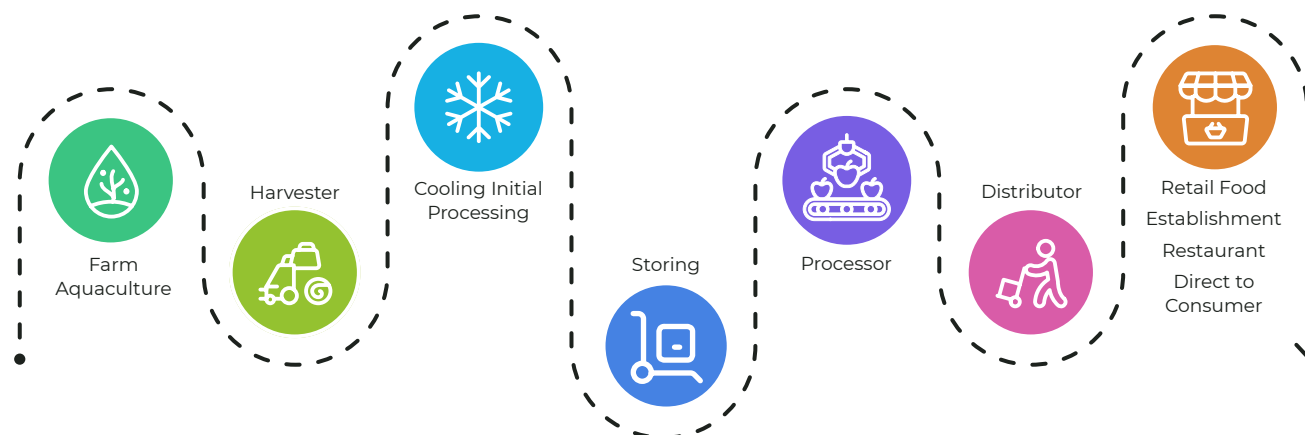
The requirement is to maintain records containing **Key Data Elements (KDEs)** associated with specific **Critical Tracking Events (CTEs)**; and provide information to the FDA within 24 hours or within some reasonable time to which the FDA has agreed.

The new requirements will enable faster identification and rapid removal of potentially contaminated food from the market, resulting in fewer foodborne illnesses and/or deaths.

Fourtec's data loggers are managed by the DataSuite software and FourtecLite Android app that offer feature-rich and intuitive data analysis and management solutions for central and digital monitoring of temperature and humidity loggers.

By enabling data monitoring, analysis and lifetime data storage, the user can monitor key data points in a way that meets the new FDA regulations.

## Supply Chain Process for Imported Fruits and Vegetables



# SENSE IT, MANAGE IT & KEEP IT SIMPLE!



**FOURTEC**

[www.fourtec.com](http://www.fourtec.com)