



**FOURTEC** Sense it. Manage it.

www.fourtec.com



**The DataNet wireless, multi-unit data acquisition solution provides** 24/7 real-time data logging for mission critical organizations. Supporting event-driven security policies from production to delivery, the DataNet leverages the power of ZigBee wireless, 2.4 GHz telemetry protocol, for instant setup and reliable support of up to 65,000 units per network.

**The MicroLogPRO solution** has delivered more than a decade of customer satisfaction, and application reliability for process and manufacturing industries. Accurate, portable temperature & humidity data loggers including external inputs, combine high functionality with ease-of-use.



**The MicroLite is an ideal solution for a variety of industrial cold chain logistics**, requiring a small form factor USB data logger. Six MicroLite models allow organizations to select the most suitable unit for their environment, including internal temperature & humidity and external inputs for 4 to 20 mA, 0 to 10 V and NTC 10kΩ.



**PicoLite Solution**

The compact and easy-to-use PicoLite, single-trip USB data logger provides a simple solution for temperature monitoring throughout the mass transportation cold chain process.



**The DaqLink solution is a portable, USB standalone data logger.** Four external inputs support multiple, industry-standard, external sensors, as well as internal humidity & temperature sensors.



For continuous indoor or outdoor data monitoring, DaqLink provides a flexible and budget-friendly solution.

**The DaqPRO solution is a stand-alone, professional data acquisition device**, with eight high resolution 16-bit sensor inputs. Features high sampling rate of up to 4,000 samples/second. Compatible with standard industrial sensors.



**DataSuite**  
A feature-rich software platform integrating Fourtec's multiple data logging solutions into a single application.



Supported by Fourtec  
SiMio Cloud Platform



**PHARMACEUTICAL**  
Monitoring environments in labs, fridges, freezers and culture rooms



**WAREHOUSING**  
Chemical, industrial and perishables storage



**COLD STORAGE**  
Optimizing temperature in refrigerated warehousing



**HOSPITALS**  
Medical alert monitoring, sterilization, blood products storage and transport



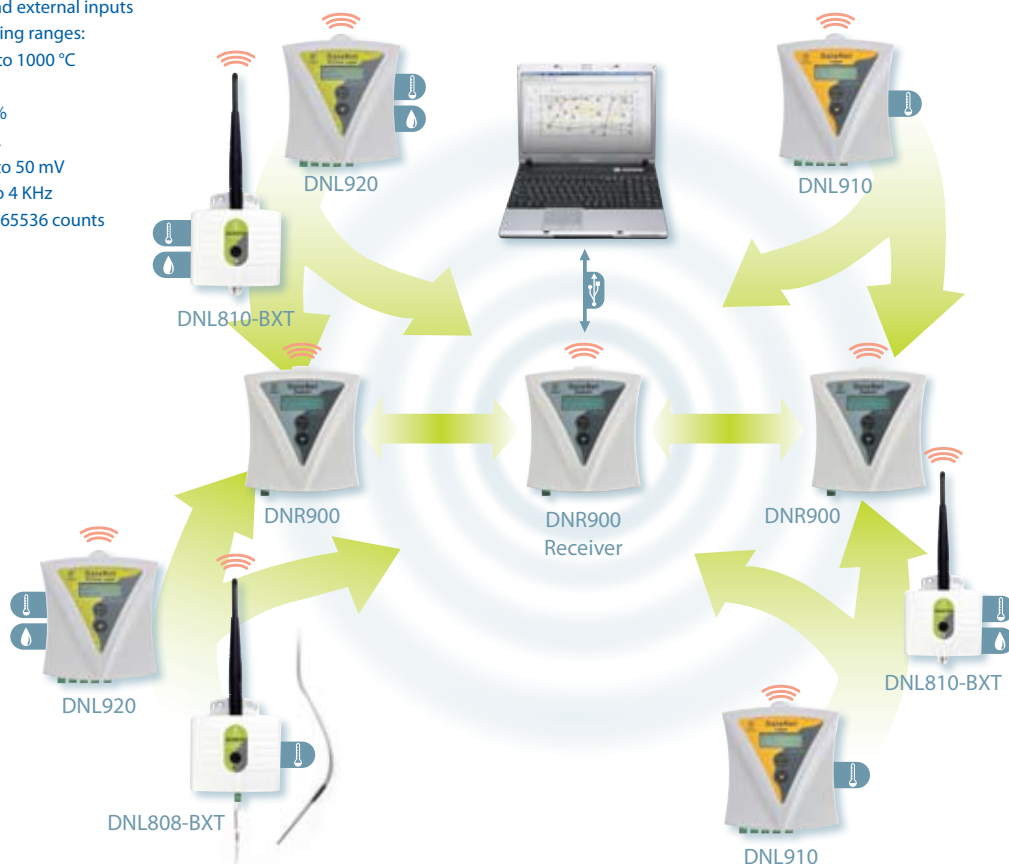
**COLD CHAIN**  
Ensuring quality products throughout the cold chain process

# Fourtec Overview

## Comprehensive data acquisition solutions

## DataNet Solution Wireless intelligent data logging network

DataNet internal and external inputs measure the following ranges:  
 Temperature: -200 to 1000 °C (-328 to 1832 °F)  
 Humidity: 5 to 95 %  
 Current: 4 to 20 mA  
 Voltage: 0 to 1 V, 0 to 50 mV  
 Frequency: 20 Hz to 4 KHz  
 Pulse Counter: 1 to 65536 counts  
 Contact



DataNet is an essential hardware and software solution that can empower any organization to control distributed networks from a single location using the ZigBee wireless protocol. Logging units function in a wireless mesh network configuration, allowing for 65,000 units in each network. This enables real-time monitoring of multiple test points in a single operation. The DataNet product range includes single-channel and multi-channel loggers supporting internal temperature and humidity sensors, as well as 4 external channels for 4 to 20 mA, 0 to 50 mV, 0 to 1 V, PT-100, Thermocouple, Contact, Pulse Counter and Frequency. DataNet system offers a broad selection of logger models meeting a wide variety of industry application needs.

## PicoLite Solution Single-trip, low cost USB temperature logger

Temperature  
 -40 to 80 °C (-40 to 176 °F)

Compact, low-cost disposable USB data logger, for unbroken mass transportation cold chain processes. Features a built-in temperature sensor, activation button, 16,000 sample memory, bi-color LED and direct USB connectivity.



The PicoLite includes the weboomerang™ Feature, a unique feature that automatically creates and emails a PDF data report when the logger is connected to PC.

The PicoLite is supported by feature-rich, complimentary DataSuite software for data analysis and alarm notification.

### PicoLite typical operating method



# MicroLite Solution The plug & record mini data logger

MicroLite internal and external sensors measure the following ranges:  
 Temperature: -50 to 150 °C (-58 to 302 °F)  
 Humidity: 5 to 95 %  
 Current: 4 to 20 mA  
 Voltage: 0 to 10 V



Low cost, water resistant, multi-trip temperature data logger, with 16-bit resolution, 4-digit LCD display and direct USB connectivity. The MicroLite works with the DataSuite data analysis software which can be downloaded for free from the fourtec website. The MicroLite includes the weboomerang™ Feature, a unique feature that automatically creates and emails a PDF data report when the logger is connected to PC.

## MicroLite operating method



- 6 MicroLite models offer a solution for every application**
- Internal temperature & humidity
  - Internal temperature
  - External 4 to 20 mA input
  - External 0 to 10 V input
  - External NTC 10k Ohm input (with NTC -50 to 150 °C probe)

# MicroLogPRO Solution The compact, portable data logger

MicroLogPRO internal sensors measure the following ranges:  
 Temperature: -40 to 80 °C (-40 to 176 °F)  
 Humidity: 5 to 95 %



The MicroLogPRO solution offers two low-cost portable data loggers for supply chain monitoring, featuring internal temperature and humidity inputs and an external input for connection to MicroLogPROs temperature, current, voltage and pH sensors. The MicroLogPRO includes the weboomerang™ feature, a unique feature that automatically creates and emails a PDF data report when the logger is connected to a PC.

## MicroLog operating method



- The next generation MicroLogPRO with:**
- Modified sensor location
  - Higher sampling
  - Increased memory
  - Enhanced LCD
  - Default mini-USB port for PC communication and firmware updates

# DaqPRO Solution All-in-one system for universal data acquisition and analysis

16-bit data acquisition and logging system



Professional data acquisition device with eight high resolution 16-bit sensor inputs. The product can be used stand-alone, as a large graphic display allows programming and data analysis, without PC connection. Sensor inputs include: 0 to 24 mA, 0 to 50 mV, 0 to 10 V, NTC, PT-100 (2 and 3-wire), Thermocouple, Pulse Counter and Frequency.

## DaqPRO LCD Display

DaqPRO provides truly independent data acquisition with full setup, data display and analysis all on the DaqPRO.

Main Menu		Numeric & graphic data display	
Setup		Notes	
Configuration		File storage	



# DaqLink Solution 4-channel multi-probe, USB standalone data logger: High functionality in a simple package

Built-in temperature and humidity sensors, plus four external probe inputs

The DaqLink data logger ensures a low cost, reliable and accurate solution. For continuous indoor or outdoor data monitoring, DaqLink is the tool of choice.



### DaqLink provides a flexible and budget-friendly solution:

- Real-time – Online operation with data results on screen
- Independent – Manual or PC operation with on-site monitoring via two-row LCD display
- Intuitive – Simple keypad and easy-to-navigate menus
- Long life – Rechargeable battery lasting up to 6 months
- Variety – Four alarm levels with visual LCD, and audible alarms
- Non-stop – Data storage to large onboard memory with periodic USB downloads

**DBSA710** – Logger with internal temperature

**DBSA720** – Logger with internal temperature and humidity

Both models support four external inputs: 4 to 20 mA, 0 to 1 V, 0 to 50 mV, PT-100 2 wires, Thermocouples (J, K and T), Contact, Pulse Counter and Frequency.

# DataSuite Unified modular software platform, supporting multiple Fourtec monitoring solutions

Supports multiple connections and simultaneous data view for: DataNet, DaqLink, MicroLite, MicroLogPRO and PicoLite

### DataSuite Features:

- Software GUI based on proven fourtec platforms
- Multiple data view features
- Map view displaying unit location, signal path and strength
- Alarm features with 4 alarm levels sending email and SMS notifications
- Reporting module for creating and generating reports with selected distribution
- Analysis features including dew point analysis, FO Pasteurization, histogram, statistics with export to Excel and CSV formats report API for DataNet system integration
- weboomerang™ Feature, for automatic emailing of PDF data report

### Supported Operating Systems:

Windows® XP SP3 / Vista / 7 / 8.1 32 and 64 Bit

### Minimum Hardware Requirements:

Pentium 4 2 GHz Processor or better, 512 MB RAM, 250 MB available disk space

### Software Features

Map view



Alarm



# FDA Title 21 CFR Part 11 Compliant

Supporting DataNet, DaqLink, MicroLite, MicroLogPRO and PicoLite data loggers

### DatPass Admin Software

DatPass is a user administration software, which supports the assignment of passwords and operating privileges for all fourtec industry application software including DataSuite, ensuring CFR compliancy. CFR is a Food and Drug Administration (FDA) issued regulation (Title 21 Code of Federal Regulations, Part 11).



DatPass Audit Trail

