

# **iLOGPlus**

Data logger

## Freezer data logging & remote monitoring

Version: 1.0 – January 2012

#### Introduction

ILOGPlus is a range of data loggers with built in advanced technology features and full Internet connectivity. It is manufactured in 2 versions with built-in Ethernet interface and with a built in GSM modem, that are capable to fit a wide range of applications ranging from simple to the most complex.

## Requirements

At an industrial frozen food manufacturer's site with 2 deep freezers (-25°C) and 1 conservation freezer (0°C) it is desired to:

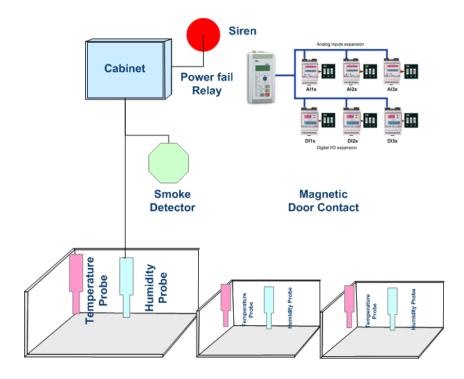
- Measure and log temperature, humidity and receive alarms when limits are exceeded.
- Receive alarms whenever there is a power failure.
- Receive alarms whenever the freezer doors are left open for a long term.

### **Proposal**

An iLOGPlus-LAN data logger with

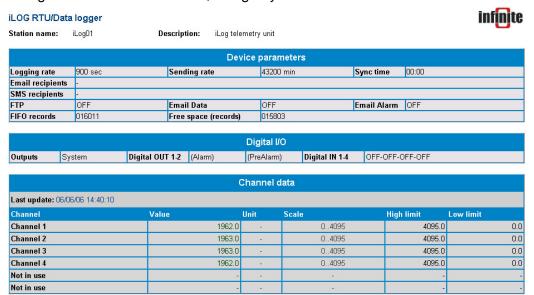
- An optional GSM modem to send alarms via SMS,
- 3 temperature probes (typically AD592, which are current sensors and can be extended up to 100+ meters),
- 3 humidity probes (typically a 5-95% to 4-20mA),
- A power loss detection relay to monitor power failures

is all that is needed to setup a complete monitoring and alarming system

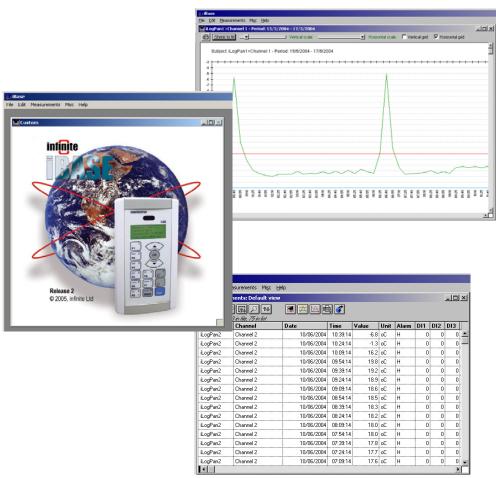




The iLOGPlus data logger can log all channels and send data automatically to a preconfigured email or local ftp account every x hours. Online monitoring is offered through the internal web server, using any Internet browser.



**Change Settings** 



Whenever there is an alarm, e.g. a temperature limit overstepping, for more than 30 minutes, an SMS alarm to a list of recipients is issued. If the temperature rises above



2°C an SMS alarm will be issued to a list of recipients, which can decide and decide on, visiting the installation or issuing remote commands.

**Note:** A single iLOGPlus data logger, which has by default 4 analogue inputs, 4 digital inputs, and 2 relay digital outputs can manage all the above. Extend the iLOGPlus unit with GE-AI-4 analog input expansion units to add more freezers (up to 16 channels per iLOGPlus device).