# Nano
# ULTRA-Atom
### COMPACT ENVIRONMENTAL CLOUD SOLUTION

# DATA SHEET

Deploying remote environmental sensors has never been quicker and easier. The NanoULTRA – Atom is a self-contained, battery powered temperature and humidity data logger that seamlessly communicates its values to the CDL SmartHub – recording temperature and relative humidity (RH). As soon as the sensor is switched on it will start to transmit the temperature and RH measurements at a pre-defined rate to our secure cloud platform, the CDLSmartHub™, via mobile phone networks where the raw data can be turned into actionable insights.

From the CDLSmartHub™ you can configure and manage assets, set alarms, view audit trails, integrate and export data, view trends and visualise data. Investing in the NanoULTRA – Atom and CDLSmartHub™, gives you access to a fully integrated end-to-end IoT solution to effectively manage your assets.

# KEY FEATURES

- Multi parameter wireless sensor
- Combined, on board temperature and humidity sensor
- Rechargeable, high capacity integral battery for complete stand-alone operation
- Discrete form factor
- Seamless operation with CDLSmartHub™
- Pinpoint geographical sensor location
- Pre-loaded roaming SIM card fitted

# APPLICATIONS

- Construction
- Agriculture
- Housing
- Leisure
- Industrial
- Process
- Transport
- Kitchens
- Food Storage

Cloud based
IoT platform

GPS for
accurate tracking

Temperature and
Humidity monitoring

Email and SMS Alerts

## Physical
80mm*64mm*25mm

## Power Supply
Built-in 3.7V/2000mAh Lithium battery
Rechargeable via USB port
Power Consumption in Transmission
mode (avg.) < 100mA
Power Consumption in Sleep mode
(avg.) < 2mA

## Standard On-board Inputs
Temperature and RH sensor x1

## On Board Storage
Will store up to 2880 samples for
upload when GSM signal is available
e.g. If GSM connectivity is lost the
NanoULTRA- Atom will store the data
and upload the data when the GSM
connection is re-established

## Modem
SIM800C supports Quad-band
850/900/1800/1900MHz

## Antenna and Connector
Internal

## LEDs and Button
LED indicators for Temperature
Measurement / Data upload / Battery
Charging

## Connectors
Mini USB for battery charging

## Environmental
Operational Temperature range –
-20 to +60 ⁰C
Operating Air pressure
860Kpa –-1060Kpa
Operating Humidity
Up to 75% noncondensing

## Location
Cell mast location used

## Approvals
CE
FCC US (pending)
WEEE regulations apply

## NanoULTRA – Atom Configuration and Management
The NanoULTRA – Atom transfers
data to the CDLSmartHub™ as soon
as the unit is powered up
All configuration is performed
 via CDLSmartHub™ to the
NanoULTRA – Atom
Example settings include:
• Alarm levels
• Reporting

## CDLSmartHub™
For live examples of the CDLSmartHub™
please visit:
https://www.captiondata.com/products
/cdlsmarthub/

Web based configuration of remote
NanoULTRA – Atom
• User management
• Alarm management and audit trails
• Trending of data

## Starter Kit
NUA-GSM = Base unit

## Contact Info
Telephone: +44(0)1905 754078
Email: solutions@captiondata.com