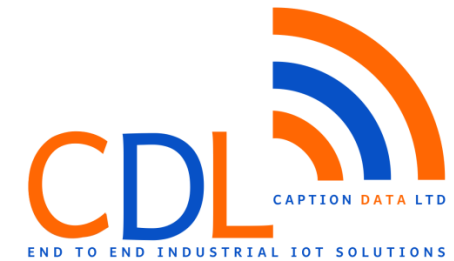


Remote monitoring solution for water damaged properties

Water damage restoration and IoT – where is the value?



Description	Why is this important?
Reduction of cycle times	<ol style="list-style-type: none">1. Higher throughput of loss handling2. Events commonly occur whilst drying properties that extend drying cycle time, these can be picked up by the use of the Matrix+. Events can include:-<ol style="list-style-type: none">1. Equipment gets switched off every night by policy holder making drying ineffective2. Refrigerant dehumidifiers being used in cold conditions3. Windows/doors get opened4. Poly tents get ripped5. Drying regime is simply not correct3. Every loss has a cost per day index, taking days from loss durations = reduction of total loss costs4. Higher efficiency in terms of equipment utilisation as you can off hire equipment in a more timely manner
Policy holder satisfaction	<ol style="list-style-type: none">1. Policy holders who experience inconvenience for longer periods of time will be less satisfied2. Keep policy holder well informed of drying progress based on tangible measurement data3. A satisfied policy holder is more likely to renew their policy so retention is higher
Reduce carbon footprint/increase sustainability	<ol style="list-style-type: none">1. Optimise deployment of technicians to losses by reducing unnecessary visits2. With the use of actual measurement data, deploy efficient, fit for purpose drying regimes3. Off hire equipment at the correct point in time minimising over drying and unnecessary energy consumption

The CDL SmartHub™



The CDLSmartHub™ is a secure, cloud based IoT platform that gives visibility of all measurement points through a standard browser

Key Features are:-

Feature	Description	Why is this important?
Multi tier user administration	Add unlimited customers/users	As a solution provider with many different customers and/or departments you will need a simple, effective way to manage multiple users/accounts on one single platform
Alarm handling	Set alarm levels and send alarms via SMS/email	Examples could be:- 1- In depth RH reaches a level where a technician can be dispatched 2- Ambient RH is too high which will not be conducive for drying progress
Reporting	Easily produce and share graphs of measurement data	Monitoring of drying progress over time in a visual way. If the drying regime is not working you can take corrective action
Multi Lingual	Translate entire environment into native language	Users need to feel comfortable with the solution for it to be fully adopted and accepted
API integration	Interface to third party systems	Interface options maybe required for BMS systems or existing management systems. This provides an efficient means of fulfilling the link
Map of assets	Multiple locations plotted on a single map with status indications	Create an operation display giving a 'quick glance' status of all customer locations

Wireless sensor specifically designed for the water damage industry



- Wireless communications to gateway
 - No trailing wires
 - Installation of sensors in minutes
- On board temperature and RH probe
- All key measurements for water damage industry via plug in options
 - ERH (Equilibrium relative humidity) for in depth measurements OR slim 5mm temperature and RH probe
 - WME moisture content
 - Surface temperature
 - Leak detection cable
- Typically 5 Years sensor battery life
- Up to 1km range within buildings (building structure dependent)
- On board QR code for super quick installation

Sensor accessories

Equilibrium Relative Humidity Sensor – Combined temperature and humidity



- Ideal for taking measurements within concrete screeds and building materials
- Connects into main sensor via jack plug
- 1.8m cable length
- 10mm Diameter
- - 20 C to + 70 C and 0% to 95% RH

Slim 5mm diameter temperature and RH probe



- Perfect for measuring voids with minimal repair damage
- Suitable for measuring in/out air flows for HP systems and Drymatic systems
- Not suitable for use in screeds and in material

Sensor accessories

WME input can be used with the following accessories:-

Ring crimps

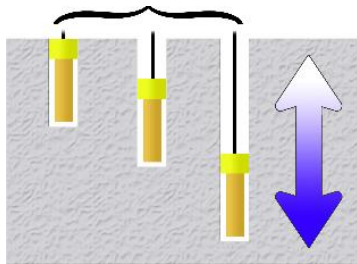


- Use regular self tapping screws to fix ring crimps to building material
- Distance needs to be 25mm apart
- Perfect for sensitive wooden floors and wooden structures

HygroBug™ – Moisture Content Probe



- Highly consistent moisture content readings in highly saturated building materials
- Highly responsive
- Un-affected by conductive and contaminated materials
- Provides feedback even when using high levels of heat to dry (which is not possible with an in-depth RH probe)
- Great for target drying regimes



Measure moisture content levels at varying levels within screed floors

The Link to the



Wireless comms up to 1km in buildings



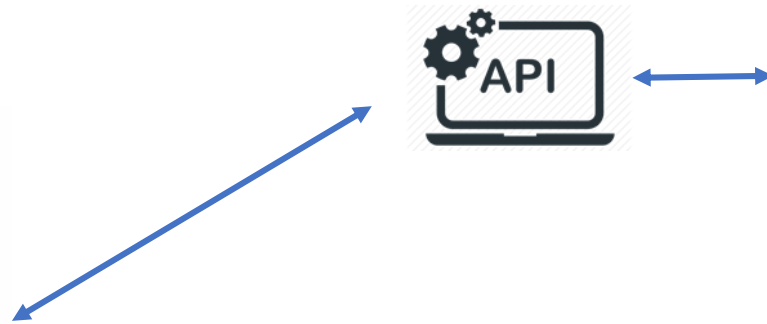
Typically 5 Years sensor battery life



Cellular connection to SmartHub



Linking drying data to third party management systems



- In house management system
- Visibility on drying levels
- Mobilise technicians to off hire equipment more intelligently

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