DICKSON
Environmental Monitoring + Compliance Experts

Monitoring and Mapping Solutions for Life Sciences

Whether your objective is a new personalized medicine using CAR-T for a cancer therapy, mRNA therapeutics, vaccines, or managing a storage environment of finished products in a GxP compliant warehouse, Dickson's expertise means more efficient processes and higher quality products for your business.

Dickson is a global leader in environmental monitoring solutions and mapping services for pharmaceutical, biotech, cell and gene therapy, and other life science organizations. Dickson helps maintain compliance, ensure product quality, and streamline your operations with accurate and reliable measurements and is trusted by organizations such as Merck, Novo Nordisk, DHL, Catalent, Azenta, Sanofi, Cytovance, Moderna, the FDA, and others to monitor their most important processes, therapies, and treatments.

Meet and Maintain Your Environmental Monitoring and Compliance Needs

It can be difficult to tell the difference between a compromised product and a safe one, which is why continuous monitoring with real-time alerts is crucial. With a real-time environmental monitoring system, you can make sure that your products are never compromised and that you have documentation to prove it in order to easily comply with cGMP, GDP, and regulatory boards including the FDA, CDC, or your local State Board of Pharmacy.

1. **Continuous remote monitoring allows you to be confident in demonstrating compliance**
2. **Temperature monitoring that is compliant to regulations guarantees therapeutic quality**
3. **Real-time alerts and notifications for excursions allow for immediate response**
4. **Mix and match hardware to create a robust and comprehensive monitoring system**



Preventing Loss

Have visibility of any excursions and automatically alert staff to take corrective actions to prevent the loss of valuable therapeutics, vaccines, or raw materials.

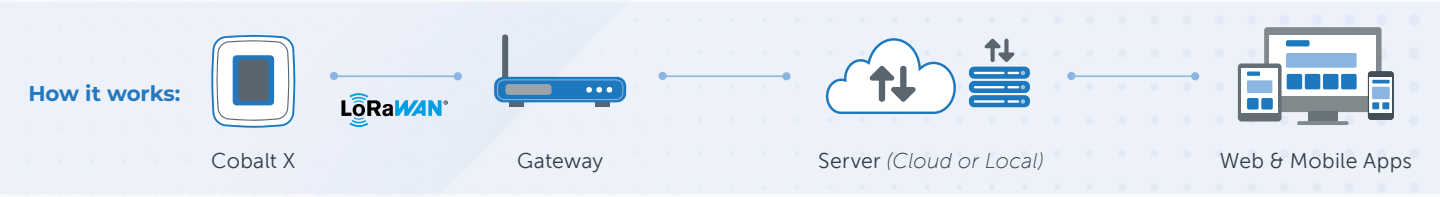
- System-wide environmental monitoring
- Automatic data collection
- Real-time notifications

Cobalt X Data Logger

Full-featured touchscreen data logger with support for up to four external sensors simultaneously to monitor your invaluable equipment. Readings are recorded in on-board memory and transmitted to DicksonOne via LoRaWAN®. The Cobalt X offers interactive touchscreen controls and highly visible alert indicators, with support for a wide variety of environmental sensors.



- **Smart-Sensors™, wired, and wireless sensors for monitoring temperature, humidity, CO2, differential pressure, 4-20 mA, 0-5 or 0-10 V, dry contact, and light**
- **Interactive touchscreen for fast access to setup, information, and alarms**
- **Fully integrated with DicksonOne via LoRaWAN®**

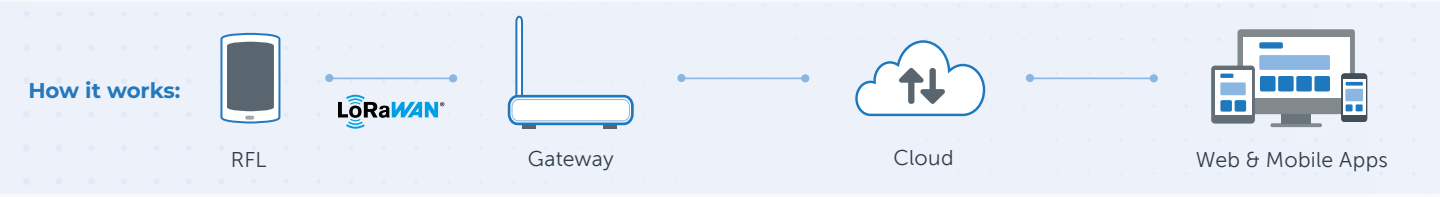


Battery-Operated Data Logger

With no AC power or WiFi required, our newest data logger allows you to monitor even the hardest to reach places. Thanks to impressive battery life, unparalleled data transmission distance with LoRa, and its compact size, this data logger can go where no logger has gone before.



- **Long-Range Data Transmission with LoRaWAN®**
- **Battery-Powered**
- **Replaceable Sensor™ Technology**

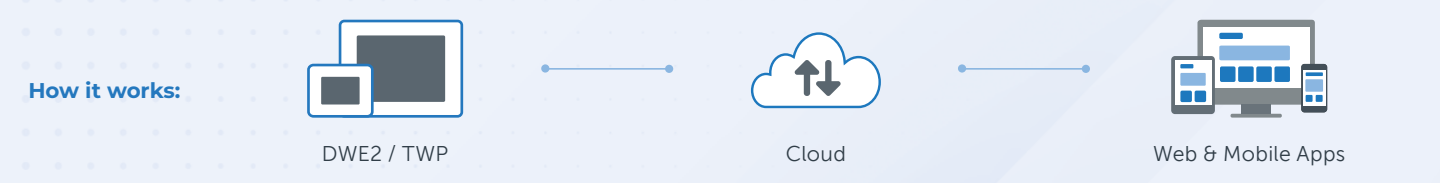


Touchscreen & Display Data Loggers

The DicksonOne touchscreen and display data loggers collect temperature, humidity, and differential pressure data and automatically deliver it to the DicksonOne cloud application. From there, you can access your secure data from any internet-connected device, anywhere in the world. No more downloading data—DicksonOne does all the work for you.



- **Email, Text, & Phone alarms**
- **Unified monitoring system scalable to your needs**
- **Remote access for an unlimited number of users anywhere you have internet**
- **Replaceable Sensor™ Technology**
- **WiFi or Ethernet**



Mapping with Dickson

Dickson helps you gain invaluable data-driven insight to make better decisions in protecting sensitive products while keeping your business fully compliant with our mapping services.

With Dickson's mapping services, you gain invaluable data-driven insights in protecting your sensitive products, enabling your business to achieve accreditation and be fully compliant.

Why Choose Dickson's Mapping Service?

Mapping temperature and relative humidity distribution within a three-dimensional space can be a daunting task, but the data is invaluable. Dickson's mapping services will provide you with a data-driven rationale for permanent monitoring and ensure your organization achieves National Association of Boards of Pharmacy (NABP) accreditation and complies with necessary GxP standards and FDA regulations. Protocols used are in compliance with WHO, ISPE, and USP <1079>.

Warehouse Mapping

Temperature and humidity can impact sensitive materials in your warehouse. Locating the hot and cold spots now can mean fewer spoiled products and failed audits later.

Cold Storage Mapping

Every refrigerator and freezer has its own nuances. By mapping each relevant point, you can be confident that your storage systems operate as intended and confidently meet regulatory standards.

Chamber Mapping

Are your chambers' conditions uniform on the top and bottom shelves? Understanding the exact environmental conditions of any chamber is critical to ensure the accuracy and repeatability of experiments.



How it Works

1. **Develop a Plan of Attack**

   Deciding where to place devices is paramount to a successful mapping. That's why we investigate beforehand areas for mapping studies and come in with a plan of attack. We'll get a layout of your facility and come ready to work having already identified potential pain points to set up loggers accordingly.

2. **Watch While We Work**

   There's a lot that goes into mapping and executing it properly takes a tremendous amount of time. We'll handle the process from start to finish so you don't lose days doing it right.

3. **Meet Audit Requirements**

   Once all of the data has been collected, you're able to rely on our expertise to develop a report that'll stand up to regulatory audits. The precise mapping report will document the dynamics of temperature and/or humidity in your controlled environments, provide evidence of suitability for the storage of sensitive products, and demonstrate regulatory compliance.

4. **Digest Your Data**

   It can be overwhelming to look at environmental data in three dimensions. We're here to digest, analyze, and help you understand every nuance and provide you with a clear overview of where parameters need adjusting.

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DicksonData.com

Dickson North America
Addison, IL - USA
+1 (630) 543-3747
support@dicksondata.com

Dickson Europe
Montpellier - France
+33 (0)4 99 13 67 30
contact@dicksondata.fr

Dickson Asia-Pacific
Petaling Jaya - Malaysia
+603 749 40758
contact@dicksondata.my