

WEATHER MONITORING

CLIMATIC OBSERVATIONS FOR SAFETY-CRITICAL OPERATIONS

"THE METASPHERE UNITS ARE WORKING VERY WELL, ALLOWING CRUCIAL FLOW DATA TO BE RETRIEVED TO SATISFY REGULATORY COMPLIANCE FOR WATER COMPANIES AND ENVIRONMENT AGENCIES ALIKE"

Weather monitoring now plays an important part in almost every aspect of life.

Metasphere has integrated a number of leading combined weather sensors with Point Colour remote telemetry units (RTUs), to provide easy-to-deploy weather monitoring systems that cover many of the main parameters required for climatic observations through to weather information for safety-critical operations.







THE PROBLEM

Integrating many components into a single solution is one of the challenges of deploying a weather station. In addition to the sensors, this may include modems, power supplies and data loggers.

THE RISK

Monitoring air quality, pollution, and flood and wind warnings are now safety-critical necessities, while within agri- and horticulture, it directly impacts irrigation management, livelihoods, and ultimately sustainability.

THE SOLUTION

Using a combined weather station that utilises a **Point Colour** RTU means that the need for costly integration is removed, as all required parts are contained with the unit's own weatherproof IP68-rated case.

metasphere
make data count

HOW DOES THE METASPHERE SOLUTION WORK?

Point Colour can connect to combined weather sensors using a number of serial protocols such as SDI-12 or Modbus, or via discrete analogue outputs. The measurement data is stored locally and transmitted back to **Palette** or the client's own data platform, at intervals determined by the client.

The **Point Colour** RTUs also report on exception in operationally-critical situations. When a pre-set level threshold is exceeded, an alarm is sent. The RTUs can be configured also to dial in and transfer the data more frequently when in the 'alarm' state. This allows the weather event to be captured and the **Point Colour**'s battery power called upon when it is most needed. In addition to combined weather stations, Point Colour can also provide discrete monitoring solutions for specific weather parameters such as: wind speed and direction, air temperature, air pressure and humidity, precipitation, solar radiation, soil moisture, and soil and ground temperature.



FIND OUT MORE!

If you would like to monitor weather, get in touch to find out how **Point Colour** RTU devices can transform your network:

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