

OMRON launches weather sensor to support Climate-Smart innovation in Agriculture and Infrastructure

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OMRON Electronic Components, a global leader in innovative component solutions, has announced the release of its next-generation Weather Sensor designed to meet the growing demand for reliable environmental data across agriculture, meteorology, and smart city applications.

As climate volatility and resource management challenges intensify, accurate weather data is becoming a critical tool in mitigating environmental risk and optimizing system performance. OMRON's new Weather Sensor delivers robust, real-time insights — empowering more responsive and resilient infrastructure and operations.

With high sensitivity and multi-parameter sensing capabilities, the sensor supports advanced monitoring of environmental variables such as temperature, humidity, pressure, and wind. Its compact, durable design makes it ideal for field deployment in harsh conditions — from remote farmlands to urban infrastructure.

The Weather Sensor design is well suited for key applications in agriculture, smart lighting, and utilities. Its low maintenance design makes it easy to set up and monitor climate conditions for crop fields out in remote areas. Smart street lighting applications can utilize existing power to enable the weather sensor to track spot weather conditions in urban areas, alerting those who may be affected by weather emergencies. Lastly, water management facilities can use the Weather Sensor's ultrasonic wind sensors and IR rainfall sensors to gain valuable insight into how climate may be affecting water treatment and cycling.

"Our Weather Sensor is built for the next era of climate intelligence," said Cary Horan, business development manager at OMRON Electronic Components. "By enabling smarter, real-time environmental insights, we're helping industries more effectively manage climate risks and resource constraints."

The Weather Sensor expands OMRON's growing portfolio of sensing solutions supporting sustainability, operational efficiency, and data-driven innovation. It reflects OMRON's continued commitment to sustainable products that empower smarter systems across critical sectors.