

Freshtiew MONITOR • CONTROL • RIPEN • DEGREEN • STORAGE • SAFET 6

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EC12 Ripening Contro



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Developed in Australia, the **FreshView EC12 Ripening Controller** system is the latest proven robust technology to monitor, control, ripen, degreen, and store fruit and other perishable commodities. The modular design ensures simple installation and provides flexibility to expand to meet operational demands of small, medium and large fruit handling facilities.

By automatically monitoring and controlling the concentration and levels of ethylene, carbon dioxide, temperature, relative humidity, pulp temperature, and oxygen, the *FreshView*[™] *EC12 Ripening Controller* system leads to a higher standard of presentation, longer shelf life and a more uniformly ripened, tastier piece of fruit.



¹System limit - 12 rooms (two transmitters per room) or maximum of 24 transmitters per controller.

System Overview

Example of a typical system deployed to monitor multiple fruit cooling/storage rooms

The FreshView[™] EC12 Ripening Controller may be used with our industry-standard sensor/transmitters for ethylene, carbon dioxide, relative humidity, pulp temperature, relative humidity, and/or oxygen.

As outlined in the example illustration below, a setup for two ripening rooms might include the full transmitter suite, Digital Input/Output Module (for sub-system control e.g. cooling, flashing light etc)

and Gas Delivery Module (for delivery of ripening gas to two rooms). For larger installations, multiple transmitter interface modules can be networked to the EC12 providing greater flexibility.



*Additional hardware (gas bottles, sub-systems components) not supplied.

Transmitters

Sensing technology for use with FreshView[™] EC12 Ripening Controller

We offer a range of high-quality Australian-made transmitters for use in conjunction with, or independent of, the FreshView[™] EC12 Ripening Controller. Transmitters are available for the detection of ripening gas (ethylene), carbon dioxide, temperature, relative humidity, pulp temperature and oxygen.

Each transmitter provides an analogue output signal and is housed in an enclosure that provides suitable protection against water and dust ingress (IP65²). Transmitters can be interfaced with other monitoring and control systems.



Measuring range: Sensor technology: Sensitivity: Power: Output:

0 to 1000 / 0 to 100 ppm PID / PID 1 / 0.1 ppm 8 to 35 VDC Analogue: 4 to 20 mA

Carbon Dioxide Transmitter (PDS-EC-TX-CO₂)

Measuring range: Sensor technology: Accuracy: Sensitivity: Long-term Stability: Warm-up time: Power: **Output:**

0 to 20% CO₂ **NDIR** +/- 2.5% CO₂ 0.05% CO₂ Within 5% of range over 5 years <30 minutes to reach specifications 10 to 30 VDC Analogue: 4 to 20 mA

Temperature Transmitter (PDS-EC-TX-T)

Measuring Range: Sensor Technology: Accuracy: Long-term Stability: Output:

-40 to +60 degrees C Pt100 platinum RTD +/- 0.2 degrees C 0.2 degrees C over two years 3WRTD

Relative Humidity Transmitter (PDS-EC-TX-RH)

Measuring Range: Sensor Technology: Accuracy: Long-term Stability: Power: Output:

0 to 100 %RH Capacitive +/- 2% RH +/- 2% RH over two years 9 to 30 VDC Analogue: 4 to 20 mA

Pulp Temperature Transmitter (PDS-EC-TX-PT)

Measuring Range: Sensor Technology: Accuracy: Long-term Stability: **3WRTD Outputs: Probe Cable Length: Probe Construction:**

-40 to +60 degrees C Pt100 platinum RTD +/- 0.2 degrees C 0.2 degrees C over two years 5 metres (other lengths available to order) 316 stainless-steel body, 4 mm (OD), 150 mm (L), with tapered chisel-end tip

Oxygen Transmitter (PDS-EC-TX-O₂)

Measuring Range: Sensor Technology: Accuracy: Long-term Stability: Power: **Output:**

0 to 25% O₂ **Capillary Flow Control** +/- 0.1% O₂ +/- 0.1% O₂ over two years 7.5 to 35 VDC Analogue: 4 to 20 mA

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About us:

Our company provides reliable, cost effective and timely solutions utilising the latest proven technology for fruit ripening and controlled atmosphere monitoring systems. We are dedicated to servicing our customer's needs and understanding the industries requirements to help their businesses grow. Your local distributor:

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