

# FreshView<sup>®</sup>

## EC12 Environmental Controller

Technical Data

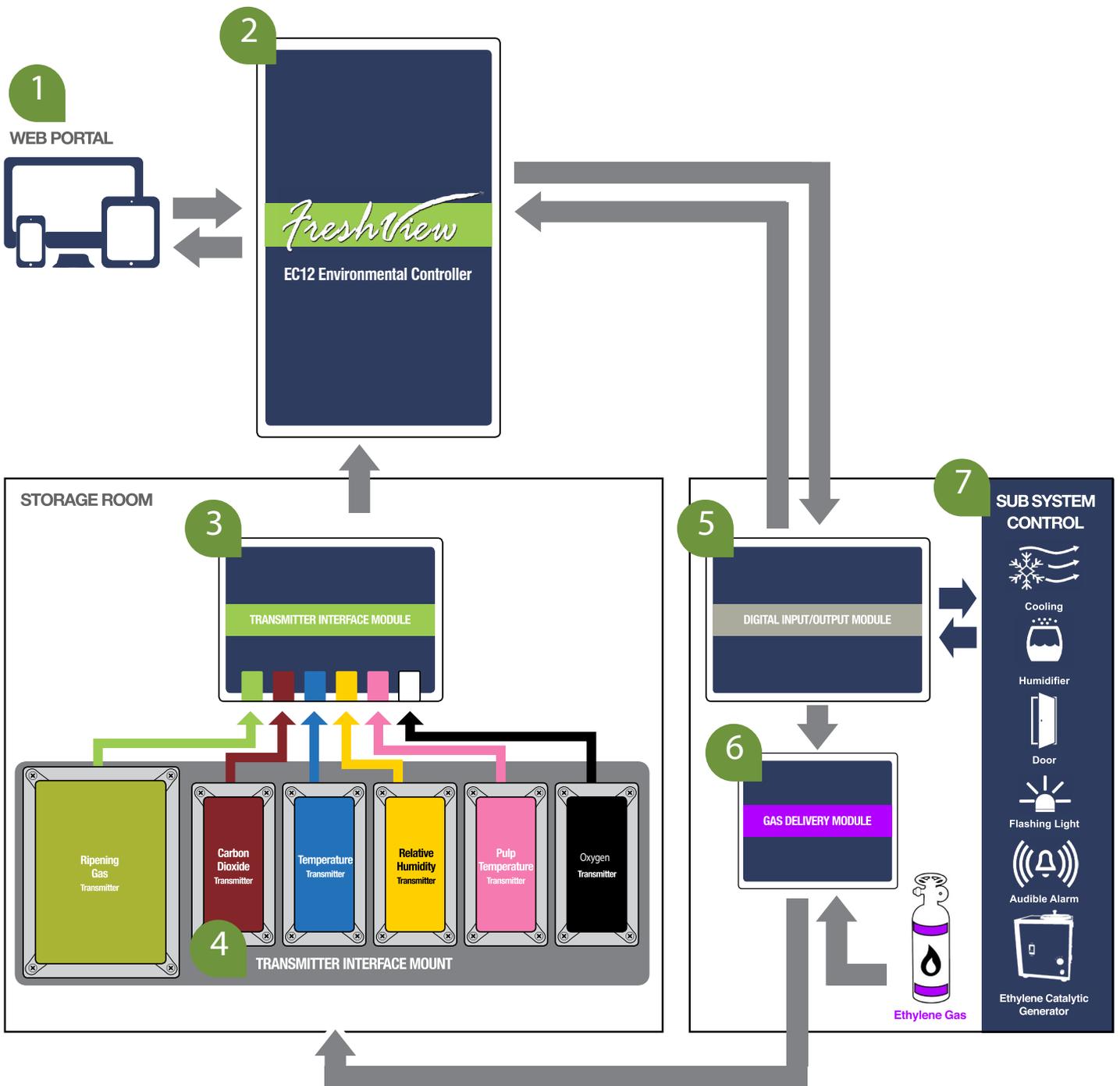


MONITOR | CONTROL | RIPEN | DEGREEN | STORE

# A typical setup

Below is how the FreshView® EC12 monitors & controls just one room. You can network up to 12 rooms each with 6 transmitters.

The EC12 receives and responds to data from 6 transmitters (for Ethylene, CO2, O2, Room Temperature, Relative Humidity, and Pulp Temperature) and triggers audible / visual or SMS alerts if pre-set levels are exceeded. To view status or change settings, the EC12 is easily accessed on-site via a 12" touch screen display or remotely through a secure web portal using any web-enabled device



- 1 Web Portal enables remote access, monitoring & control of the EC12 via 3G, 4G or LAN from web-enabled devices
- 2 EC12 Environmental Controller (PDS-EC-12) controls system configuration and access either on-site and from anywhere by 1 web portal
- 3 Transmitter Interface Module (PDS-EC-RM-TX-INT) collects data from up to 6 transmitters per room and sends it to the 2 EC12
- 4 Transmitter Interface Mount houses up to 6 transmitters
- 5 Digital Input/Output Module (PDS-EC-DIM-XX-XX / PDS-EC-DOM-XX-XX) enables the EC12 to interact with 7 other subsystems with up to 36 inputs and 20 outputs
- 6 Gas Delivery Module (PDS-EC-GDM-4C) delivers gas to 4 storage rooms from a single gas source
- 7 Subsystems controlled by 2 EC12 (e.g. cooling, humidification, dehumidification, door, flashing light, audible alarm, ethylene catalytic generator)

# Sensors & Transmitters

PDS offers a range of high quality Australian-made transmitters for use with the EC12 Environmental Controller and on their own.

These include transmitters for Ethylene, CO<sub>2</sub>, O<sub>2</sub>, Room Temperature, Relative Humidity, Pulp Temperature - and other parameters as needed. Each transmitter is robust, durable, water and dust-resistant and can be interfaced with other monitoring and control systems.

The EC12 Environmental Controller can be used with our transmitters and those manufactured by third parties.



<sup>2</sup>IP65 (enclosure),  
IP54 (sensor)



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Transmitter type:	Ripening Gas Transmitter (PDS-EC-TX-RG1000/100)	Carbon Dioxide Transmitter (PDS-EC-TX-CO2)	Temperature Transmitter (PDS-EC-TX-T)	Relative Humidity Transmitter (PDS-EC-TX-RH)	Pulp Temperature Transmitter (PDS-EC-TX-PT)	Oxygen Transmitter (PDS-EC-TX-O2)
Measuring Range:	0 to 1000 / 0 to 100 ppm	0 to 20% CO <sub>2</sub> 0 to 5% CO <sub>2</sub>	-40 to +60 degrees C	0 to 100 %RH	-40 to +60 degrees C	0 to 25% O <sub>2</sub>
Sensor Technology:	PID / PID	NDIR	Pt100 RTD	Capacitive	Pt100 RTD	Capillary Flow Control
Accuracy:	n/a	+/- 0.5% CO <sub>2</sub> +/- 0.125% CO <sub>2</sub>	+/- 0.2 degrees C	+/- 2% RH	+/- 0.2 degrees C	+/- 0.1% O <sub>2</sub>
Sensitivity:	± 1 ppm if <= 100ppm or if > 100 ppm 10% of value	0.25% CO <sub>2</sub>	n/a	n/a	n/a	n/a
Long-term Stability:	n/a	Within 5% of range over 5 years	0.2 degrees C over two years	+/- 2% RH over two years	0.2 degrees C over two years	+/- 0.1% O <sub>2</sub> over two years
Warm-up time:	1 minute	<30 minutes to reach specifications	n/a	n/a	n/a	n/a
Power:	8 to 35 VDC	10 to 30 VDC	n/a	9 to 30 VDC	n/a	7.5 to 35 VDC
Output:	Analogue: 4 to 20 mA	Analogue: 4 to 20 mA	3WRTD	Analogue: 4 to 20 mA	3WRTD	Analogue: 4 to 20 mA
Probe Cable Length:	n/a	n/a	n/a	n/a	5 metres (other lengths available to order)	n/a
Probe Construction:	n/a	n/a	n/a	n/a	316 stainless-steel body, 4 mm (OD), 150 mm (L), with tapered chisel-end tip	n/a

## Sales Enquiries

+61 7 3361 2000

For more information and to download  
the EC12 product brochure go to

[freshview.com.au](http://freshview.com.au)

Pacific Data Systems (Australia)  
27 Hi-Tech Court  
Eight Mile Plains  
QLD 4113, Australia

Your FreshView® EC12 distributor: