

## C3

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*Winner of the 2012 Irrigation Australia New Product/Innovation Award*

A flexible monitoring platform for remote infrastructure management incorporating many innovative features, the Observant C3 is the cornerstone of the Observant system. The Observant C3 can be configured for modular operations or complete stand-alone operations when paired with Observant's robust, tamper and vandal proof solar enclosure.



### **C3 Stand-Alone**

With its compact lightweight design and flexible connectivity, the Observant C3 provides unparalleled functionality and flexibility. The C3 Stand-Alone is ideal for integration into

existing infrastructure, from pumps to channel bays, and provides integrated access to Observant's Global® system for remote management and control.

### Electronics Module

The Observant C3 electronics module is encased in a rugged ABS enclosure. An integrated 32mm DIN rail mount makes it compact and convenient for wall, cabinet or outdoor enclosure mounting.

### Integrated Solar Enclosure

Designed with environmental protections, incorporating UV stable, water-tight and debris shedding fittings, the integrated C3 solar enclosure can be securely installed outdoors.

With the Observant C3, you can remotely manage a large range of equipment and choose from a number of wireless communications options, ensuring cost effective coverage and reliability for comprehensive remote management.

The Observant C3 is covered by a three year warranty and includes unparalleled after-sales service.

## Product Specifications

### Electronics Module

#### Power Requirements

- Connection via terminal block or 2.5 mm DC power connector
- 60 V maximum on all power inputs
- 40 W peak total power draw across all inputs
- 100-500 mW typical draw depending upon radio technology and mode

#### Battery

- 75 WHrs total capacity
- LiFePO<sub>4</sub> (Lithium ferrous phosphate) technology

#### Wireless Technology

- GPS as standard
- Optional 470 MHz, 5 W UHF data radio
- Optional 915 MHz, spread spectrum 1 W data radio
- Optional GSM/3G 850 MHz cell

### Integrated Solar Enclosure

#### Power

- Nominal 14 W, 18 V crystalline PV panel
- Internally routed 2-core solar power cable with 4-way pluggable connector to suit C3 module

#### RF

- Primary antenna position (by default a raised feed UHF whip antenna with BNC connector)
- Secondary antenna position, multi-band (900/xG, GPS) puck antenna with SMA connections

#### Dimensions

- Installed Height: 900 mm (h, inc. antenna) X 420 mm (w) X 328 mm (l)
- Installed Weight: 6.4 kg (including C3 module)
- Packed Height: 430 mm (h) X 440 mm

packet radio

(w) X 330 mm (l)

- Packed Weight: 8.5 kg

#### **Dimensions**

- Module Height: 215 mm (h) X 164 mm (w) X 75 mm (l)
- Module Weight: 1.3 – 1.7 kg (dependant upon radio configuration)
- Packaged Height: 120 mm (h) X 240 mm (w) X 180 mm (l)
- Packed Weight: 2.1 kg

#### **Mounting**

- Standard 32 mm DIN rail
- Locking clip

#### **Cable Management**

- Connections via 4-way pluggable screw terminal blocks
- Two cable tie mount points

#### **Mounting**

- Pole mount via hose-clamps, suitable for poles ranging in diameter from 1.5" to 3" nominal, 48 – 90 mm actual
- Wall mount via four screw holes
- Easily removable from mounting bracket via single thumb-bolt
- Integrated adjustable solar panel mount

#### **Cable Management**

- Single bottom entry M32 gland, suitable for electrical conduit up to 25 mm in diameter
- Two optional rear entry points, once drilled are suitable for included pierce through cable glands