

iCON_{rwc}

Seamless, uninterrupted water supply in dual water source applications



- Automatic switching between dual water sources
- Suitable for above & below ground systems
- Up to 2 pumps
- Superior reliability & useability
- Genuine compliance - switching NOT mixing
- IP65 and NEMA4x rated

Applications

- Residential building developments
- Sporting grounds & ovals
- Community halls & buildings

Take the next big step in efficient water management with the iCON_{rwc} controller from CAP Industries. The iCON_{rwc} is trusted by irrigation designers, engineers and developers alike due to its reliable operation, flexible design and most importantly, its ease of use and commissioning.

The iCON_{rwc} is designed for any application with a dual water source – such as tank water and mains water supply. It works at the heart of your system to control the operation of your pump/s based on water demand and availability. If there is demand and water is available in the tank/reservoir, the iCON_{rwc} will operate your pump/s to supply tank water. The controller will stop the pump/s and automatically divert to mains water supply if:

- there is no tank water available;
- all available pumps have faulted;
- the system has faulted;
- no power is available.

Key benefits

- Ease of use is guaranteed via the straightforward menus and instructions displayed on screen in real-English
- Operating data for each pump AND solenoid valve is recorded and can be displayed on screen
- Offers a range of options for additional system protection including: thermal overload, flow switches and temperature switches
- All functions and system information can be made available to your Building Management System (BMS) or SCADA system (MODBUS communication is also available as an option)
- Access code prevents unauthorized access to the control setup
- Can be tailored to suit any site-specific conditions or requirements



System features

- Operates via a pressure transducer or pressure switches
- Automatic rotation of lead pump each start (or fixed operation)
- Automatic exclusion of faulted pumps
- Key information including system status, individual pump status and fault conditions is displayed clearly on the large LCD screen
- System operation and protection parameters can be tailored to suit specific applications
- Manual test function for each pump
- Adjustable start and stop delays to eliminate pressure surges and pump cycling
- System settings are secured via memory with battery backup

Pump and System Protection

- Minimum run timers per pump to reduce pump cycling
- Pump and/or system alarm inputs with adjustable time delays for system and/or individual pump protection
- Low pressure and high pressure protection with time delay
- Option to add:
 - loss of prime/no flow protection
 - other system or individual pump protection components (eg. temperature sensor)
 - level transducer

Upgrades and customisation

The iCON_{rwc} controller features a wide range of customisable options to cater for site-specific requirements. This includes the addition of:

- LED and flashing lights
- buzzers and sirens ; and
- remote start relays.

Upgradeability is assured by the systems robust, industry-proven PLC programming. This together with IP65 and NEMA4x rating ensures your iCON_{rwc} control system is today's most reliable, long-lasting solution for your pumping operation.

Telemetry and communication options

The iCON_{rwc} controller was designed with remote monitoring and control in mind. System status, system alarms and fault indications can be supplied directly to your BMS system as standard.

Additional options include:

- MODBUS communications
- Next G/GSM modem for SMS alerts; and
- radio networks.

Technical Data

Display	LED, yellow-green, software controlled (LCD backlight) 2 lines, 16 characters
System power supply options	Single phase 1x240V, 1x480V Three phase 3x415V
Clock (RTC)	Real-time clock functions (date and time)
Battery back-up	10 years typical at 25°C, battery back-up for RTC and system data, including variable data
Operating temperature	0 to 50°C
Communication (option)	Modem – GSM or NextG MODBUS
Frequency	50 or 60 Hz
Relative humidity	10% to 95% (non-condensing)
Inputs	8 digital
Output relays	6
Protection	Controller: IP65/NEMA4x Panel options: IP56 PVC enclosure IP65 powder coated metal enclosure (IP55 rating with additional of lights and/or switches)

Note: 1-2 pump systems standard. Larger systems available on request.

