

# iCON Level Controller

*Intelligent controller for level applications*



- 1 – 3 pumps
- Large LCD screen and user-friendly menu structure
- Tank fill or tank empty selection
- IP65 and NEMA4X rated
- Suitable for submersible and surface pumps
- Single or multiple water sources

## Applications

- Building services
- Industrial water supply
- Agriculture & viticulture
- Irrigation & turf watering
- Domestic water supply

Rugged, reliable and easy to use, the new iCON level controller from CAP Industries sets new standards in efficient pump control. Featuring advanced menu-driven design, large LCD screen and an unprecedented IP65 rating, the iCON controller is the smart solution for your pumping application.

## Efficient filling or emptying operation

The iCON level controller works at the heart of your pump system to control the operation of your pump or pumps within set parameters. Settings can be easily entered or changed on screen via the easy-to-follow menus, allowing you to tailor your control to suit any site-specific conditions or requirements.

Key information is displayed clearly on the large LCD screen including:

- system status
- actual level
- individual pump status; and
- fault conditions.

This ensures you can confidently monitor system operation and diagnose any system failures for immediate action.

## Other features include:

- level transducer or float switch operation
- tank fill or tank empty selection
- automatic rotation of lead pump each start or fixed operation
- system and individual pump run, fault and alarms displayed on screen
- start/stop delay timers and minimum run timers for individual pumps
- tank level displayed on screen (level transducer operation only)
- manual test function for each pump
- pump starts and hours run displayed on screen
- all settings secured on memory with battery backup.

## System & individual pump protection

Featuring a range of system and individual pump protection features, the iCON level controller is the ideal solution for maintaining the long-term reliability and operational integrity of your pump investment. Protection parameters can be tailored to suit your specific application, and all settings are safeguarded by an access code which prevents unauthorised access.

## Key protection features include:

- high level alarm – displayed on screen until level reduces below set value
- low level fault – displayed on screen, fault stays on until system is reset
- minimum run timers per pump to avoid cycling
- system alarm input
- system pause input.

## Upgrades & customisation

Flexible design combined with multiple inputs/outputs and a range of customisable options ensures the iCON controller easily – and cost effectively – caters for a wide range of applications or site-specific requirements. This includes the addition of:

- LEDs and flashing lights
- buzzers and sirens
- remote start relay; and
- NextG /GSM modem for SMS alerts.

Upgradability is assured by the reliable, industry-proven PLC programming. This together with IP65 and NEMA4X rating ensures your iCON level control system is today's most reliable, long-lasting solution for your pumping operation.

## Telemetry & communication options

The iCON controller can supply information regarding system status, system alarms and fault indications directly to your BMS system via industry-standard MODBUS communications or voltage free contacts (optional). Remote monitoring and control are also available with the iCON level controller allowing you to effectively manage your pump system at all times - whether in the field or from afar.

## iCON

*The new iCON pump controller is an easy to use, flexible pump control solution with versions available for pressure control, level control and variable speed control applications.*

*Designed to help operators achieve better, more effective control of pumps and pump stations, it offers a number of unique features including:*

- *rugged and powerful PLC programming to ensure simple upgradability and industry-proven reliability;*
- *multiple inputs and outputs enabling the controller to cater for a wide range of site-specific requirements and/or system designs without significant cost or reprogramming;*
- *intuitive, menu structure based on end-user requirements;*
- *IP65 and NEMA4X rating for greater protection in the harsh Australian conditions; and*
- *optional MODBUS communications.*

## Technical Data

Display	LED, yellow-green, software controlled LCD backlight; enables display to be viewed in the dark 2 lines, 16 characters
Control voltage	24VDC
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 (standard controller) 18 digital (advanced controller) 2 analogue (0-10V or 4-20mA)
Output relays	6 (standard controller) 11 (advanced controller)
Protection - controller	IP65/NEMA4X
Protection - panel	IP56 PVC enclosure IP65 powder coated metal enclosure (IP55 rating with addition of lights and/or switches)



Available from:



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