

iCON touch

Premium pump control solution with touch-screen interface



From its full colour, touch-screen interface to its intuitive menus and remote communication capabilities, the iCON touch controller easily ticks all the boxes.

The iCON touch is today's most advanced pump control solution for achieving constant pressure with variable speed control for up to six pumps (5 main plus a jockey). It combines the latest in touch-screen technology with innovative yet practical software designed, developed and supported in Australia by CAP Industries.



Key benefits

- Uncluttered main screen allows "at a glance" assessment of system performance
- Full data-logging of system events, complete with date and time
- Trending screens for pressure and flow to illustrate system activity over a given time period
- Jockey pump control via independent VSD
- In-built remote communication capabilities
- Compatible with a range of BMS and SCADA systems (via MODBUS communication)
- Accepts inputs from irrigation controllers and other field equipment
- Comprehensive help menus

- Easy-to-use touch screen display
- Constant pressure with multiple variable speed control
- Unique dual PID control for superior system performance
- Up to 6 pumps
- In-built remote monitoring and control facilities

Ideal Applications

- Golf Courses
- Sports turf & municipal irrigators
- Building services
- Commercial & industrial water supply





Key information including variable speed status, motor speed, system pressure & flow is clearly displayed on main screen (viewable via the internet).



Trending screens efficiently summarise system operation and activity for a given time period (viewable via the internet).

System features

- Data logging of key information
 - System events and faults (time, date)
 - Pump operation (hours run, number of starts)
 - System activity (pressure, flow)
- Unique dual PID control for more efficient maintenance of system setpoint
- Multiple setpoints to cater for varying system demand
- Programmable friction loss compensation
- Programmable alarms and/or faults with delay times for:
 - Flow meter input
 - Water level input (float switch or level transducer)
 - Pump and system protection
- System no-flow testing adjustable to suit any pump system (including end suction/flat curve pumps)
- Adjustable time delays for pump start, stop, minimum run times
- Unique change-over protocol - monitors speed and pressure during starting/stopping of additional pumps to significantly reduce cycling and enable control of flat curve pumps
- Auxiliary outputs for additional equipment control
- Emergency stop
- System settings secured via battery backup

Pump & system protection

- High pressure limiting function (high pressure protection) with sequenced shutdown
- Low pressure protection with adjustable time delay and sequenced shutdown
- Unique anti-cycling function developed exclusively by CAP Industries
- Additional inputs available for system and individual pump protection

Telemetry & communication options

- Ethernet, Canbus, RS485, MODBUS RTU/IP, CANopen, J1939, SNMP
- SMS, GPRS, 3G/NextG
- In-built web server

Upgrades & customisation

The iCON touch can be expanded to suit any application or control requirement. It includes a wide range of upgradable options including:

- Lead variable speed/lag soft start with automatic rotation of lead VSD
- Incorporation of auxiliary pump units (ie. fertigation/injection units)
- Programmable outputs for additional auxiliary equipment
- Larger touch screen

Display	LCD Type: TFT Viewing area: 10.4" Resolution: 800x600 pixels (SVGA)
System power supply options	Single phase 1x240V, 1x480V Three phase 3x415V Other voltages on request
Clock (RTC)	Real-time clock functions (date and time)
Battery back-up	7 years typical at 25°C, battery back-up for RTC and system data, including variable data. NB: battery can be replaced without opening the controller.
Operational temperature	0 to 50°C
Frequency	50 or 60 Hz
Relative humidity	5% to 95% (non-condensing)
Inputs	Standard: 48 digital inputs/6 analogue inputs: 0-10V/4-20mA Additional inputs may be added to suit any application
Output relays	Standard: 24 relay outputs/6 analogue outputs: 0-10V, 0(4)-20mA Additional outputs may be added to suit any application
Enclosure	Standard: IP66 powder coated metal enclosure, with IP54 fan & vent louvers. May be upgraded to IP56. Aluminium and stainless steel enclosures available on request
Communication	Standard: MODBUS and Web server, Option: Modem - GSM or 3G/NextG and 4G

Specifications subject to change without notice

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