



## MODEL CP820

Affordable SCADA's new Model CP820 control panel in conjunction with a hosted Human Machine Interface (HMI) truly does bring affordable SCADA to the marketplace. Currently available in several configurations, the versatile CP820 is ideal for controlling Water Supply Wells, Storage Tanks, PRVs and small Lift Stations.

### PRODUCT OVERVIEW

The CP820 features UL Listed, Rail Mounted, Industrial Control Components for use in a variety of SCADA applications. All components are housed in a NEMA 4 polycarbonate corrosion proof enclosure to insure full protection from the environment whether indoors or out. With every component pre-wired to terminal strips all you need to do is bring in power source conductors and field I/O circuits. Just land the wires on the preassigned terminals and you'll be running in no time.

The CP820 can be used as a standalone controller but its advanced capabilities are realized when it is bundled with Affordable SCADA's Machine-to-Machine (M2M) Network and hosted HMI. Anywhere access to the HMI through virtually any browser



Remote Support & Management

and alarms sent directly to your phone, this connection establishes the foundation to put you in control.

With this complete package, communication paths and HMI tag counts are no longer an issue. The control network and HMI are easily expandable, allowing for a system to be implemented in phases over time and grow as the infrastructure demands grow.

### PRODUCT FEATURES

- Remote Support & Troubleshooting
- Zero Maintenance Hosted HMI
- Factory Pre-Wired and Tested
- UL Listed Components
- Surge Protected
- Backup Battery Power/Optional Solar
- Ethernet Communications
- RS-232 Capable
- Standard Off the Shelf components

Typical HMI Screen

The screenshot shows the HMI interface for 'Well #1'. At the top, there's a navigation bar with 'Water Tank', 'Well #1', 'Well #2', 'Well #3', and 'Lift Station'. Below this, there are tabs for 'Overview', 'Site', 'System', and 'History'. The main area is titled 'Well 1 Data' and contains several data points and control elements:

- Well Status:** CALLED
- Run Hours:** 5700.3 HR
- Tank Level:** 19.6 FT
- Building Temperature:** 71.2 °F
- Flow:** 702.14 GPM
- High Temp. Setpoint:** 100.0 °F
- Flow Total:** 150000 GAL
- Low Temp. Setpoint:** 5.0 °F
- Current Flow Today:** 899000 GAL
- Current Level Setpoint:** 16.0 FT
- Building Low Temp. Alarm Setpoint:** [Blank]
- Building High Temp. Alarm Setpoint:** [Blank]

Control elements include 'Auto', 'Manual', and 'Starts' buttons, a 'Run Hrs' button, and status indicators for 'Run Status' (green), 'LOR: REMOTE', and 'Alarm' (red). A 'Motor Current' display shows 38.34 A. A 3D model of a well pump is also visible.



# MODEL CP820 DATA SHEET

## ENVIRONMENTAL

- Operating Temp -45f\* - +100f  
\*with heater option
- NEMA 4 Rated
- UL F1 UV Exposure Rated

## PHYSICAL

- Polycarbonate Enclosure
- Stainless Steel lockable latches
- Light Grey Gloss Finish
- 50 lbs
- 19" w x 19" h x 12" d
- Wall or Pole Mount

## POWER

- 120 VAC or 24 VDC
- 250 Watts
- IEC Class III Surge Protection
- 350 VA Battery Backup
- Optional Solar Charging System

## STANDARD I/O CONFIGURATION

- 8 Discrete Inputs
- 7 Discrete Relay Outputs
- 4 Analog Inputs
- 1 Analog Output

## COMMUNICATIONS

- Cellular
- Satellite
- UHF/VHF/FHSS

### Installation



### Overall Nominal Dimensions

