CSI controls ®

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On-Site
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Control

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POWER ZONE Control Panels

Power Zone™ control panels utilize **"zero crossing" technology** to maximize relay life by increasing load capacity of the relay.

Each **NEMA 4X** control panel features an **exclusive front mounted touch-to-silence-pad** with exterior LED indicator lights and a **digital display** for programming pump information, including elapsed time, cycle counter, high level counter, float status indicators, low level alarm on/off selection, lead pump selection and alarm settings.

Power Zone™ panels are available in single phase models: Junior (demand dose), Simplex (demand and timed dose) and Duplex (demand dose) applications. Optional pedestal with access door is available for easy installation (see accessories). **UL/cUL Listed.**

Features:
- Exterior touch so silence/touch twice to test circuitry
- External alarm & control power lights
- External pump run light(s)
- Internal hand run button(s) with latching feature
- Internal pump run indicator light(s)
- Alarm & control short indicator lights
- No holes drilled or cut for lights, audible, or silence devices
- Quick disconnect circuit boards - simple field troubleshooting
- Field wiring terminal strip
- Lockable hasp
- Standard digital display center includes:
    - Elapsed time meter for each pump (resetable)
    - Cycle counter for each pump (resetable)
    - High level counter
    - Float status indication
    - Alternation with lead pump selection (duplex panels)
- Optional time dose version:
    - Pump run/off timer
    - Timer override counter
    - Override timer with settable override run and off time
    - Duplex time dose available (consult factory for details)

FUSION Control Panels

FUSION™ control panels package traditional, user-friendly components with an enhanced design into a NEMA 4X polycarbonate enclosure.

FUSION™ control panels are available in Simplex and Duplex models for demand dose applications. **UL/cUL Listed.**

Features:
- NEMA 4X weatherproof enclosure for indoor/outdoor installations
- Inner door for added safety
- Red flashing alarm beacon and horn
- Separate control and alarm fuses
- Lockable hasps
- Pump run light
- Hand/off/auto heavy duty toggle
- Alarm on/off/test heavy duty toggle
- Raised field wiring terminal strip for easier installations
- Pump and alarm/control circuit breakers
- Options:
    - Auto dialer
    - Elapsed time meters
    - Cycle counters
    - Seal fail indicator
    - Auxiliary alarm contacts
    - Timed dose operation

RK Series Control Panels

Optional Digital Display Center (DDC)

Optional Digital Interface Board (DIB)

RK Series™ control panels offer a unique approach to pump control through a revolutionary NEMA 4X panel design incorporating common features onto the **exclusive circuit board, sub-door and raised back-panel.**

The RK Series™ control panels have **increased user safety** through the use of a non-conductive molded polycarbonate inner sub-door, which provides considerable space savings and convenient operator controls while isolating the user from energized components.

RK Series™ control panels are available in Simplex and Duplex models for demand dose and timed dose applications. **UL/cUL Listed.**

Features:
• Red flashing alarm beacon and horn with variable flashing modes to indicate specific alarm faults
• Separate control and alarm fuses
• Lockable hasps
• Raised terminal strip for easier installations
• Sub-door control center:
  - LED indicators for control and alarm circuit power
  - Pump run indicator light
  - Float status (high level, lag pump on, lead pump on, pumps off)
  - External touch to silence/touch twice to test pad
  - Push to run hand button
• Options:
  - Auto dialer
  - Elapsed time meters
  - Cycle counters
  - Seal fail indicator
  - Auxiliary alarm contacts
  - Timed dose operation
  - Pump and control/alarm circuit breakers

The RK Series™ offers **optional digital displays** for viewing system information (as a factory-installed option or as an accessory to be easily field installed later):

• **Digital Display Center** (DDC) has a 4 character LED display screen

• **Digital Interface Board** (DIB) incorporates a two line, 16 character display screen for a more complete read-out by the user

CS2004E Alarm

- NEMA 4X
- Outdoor alarm
- Red alarm light
- Audible alarm
- External T/N/S toggle switch
- 15 ft. control switch
- Power cord with 3/8" seal-tight cord connectors
- UL Listed enclosure

CS2004 Alarm

- NEMA 4X
- Outdoor alarm
- Water-tight enclosure
- LED alarm lights
- Audible alarm
- Touch to silence, touch to test circuitry
- 15 ft. control switch
- Power cord with 3/8" seal-tight cord connectors
- UL Listed enclosure

US Patents 7,075,443 & 7,224,283

CS1200 Alarm

- NEMA 1
- Indoor alarm
- Red alarm light
- Green power light
- Auto reset
- Battery backup
- 15 ft. control switch
- Power cord
- UL Listed, CSA Certified

CS1000 Alarm

- NEMA 1
- Indoor alarm
- Red alarm light
- Green power light
- Alarm test switch
- Horn silence switch
- 15 ft. control switch
- Power cord with 3/8" seal-tight cord connectors
- UL Listed, CSA Certified

AlarmBot™ Outdoor Pedestal Alarm System

- NEMA 4X weatherproof enclosure
- Clear beacon for 360° visual
- High-intensity red flashing LEDs (4)
- Safe 12V operation
- 115V plug for automatic pump or piggyback float switch
- 15 ft. control switch
- Factory-sealed to prevent moisture and gases from entering system
- Beep tone audible with on/test/silence switch
- Mounts on 4" electric conduit (customer supplied)

360° VISUAL

AlarmBot™ Alarm System installation

Control Duty Mechanical Control Switch

- Narrow angle, mechanically-activated control switch activates control panels and alarms in high or low levels
- Electrical: 125/250 VAC, 5 Amps
- Control differential: approx. 1.5" above or below horizontal

Control Duty Mechanical Low Current Control Switch

- Narrow angle, mechanically-activated control switch activates control panels and alarms in high or low levels
- Low current electrical: 125 VAC and 30 VDC
  Maximum electrical load: 0.1A
  Minimum electrical load: 0.160 mA
  5 VDC: Minimum electrical load: 1 mA
- Control differential: approx. 1.5" above or below horizontal

Control Duty Mercury Control Switch

- Narrow angle, mercury-activated control switch activates control panels and alarms in high or low levels
- Electrical: 120/230 VAC, 5 Amps
- Control differential: approx. .5" above or below horizontal

Control Duty Mini Mercury Control Switch

- Narrow angle, mini mercury-activated control switch activates control panels and alarms in high or low levels
- Electrical: 120/230 VAC, 5 Amps
- Control differential: approx. .5" above or below horizontal

Control Duty Vertical Reed Switch

- Vertical reed switch activates control panels and alarms in high or low levels
- 250mA, 12-125 VAC, 50/60 Hz
  500mA, 6-12 VDC, 50/60 Hz
- Maximum Angle from Vertical: 5°
- Control differential: approx. .375"

Medium Duty Mechanical Pump Switch

- Wide angle, mechanically-activated pump switch directly controls pumps
- Electrical: 125/250 VAC
  Max. pump run current: 13 Amps
  Max. pump start current: 78 Amps
- Pump up or pump down; with or without plug
- Pumping Range: 8-36 inches

Heavy Duty Mechanical Pump Switch

- Wide angle, mechanically-activated pump switch directly controls pumps
- Electrical: 120/230 VAC
  Max. pump run current: 15 Amps
  Max. pump start current: 85 Amps
- Recommended Pump HP:
  120V: 3/4 HP or less; 230V: 2 HP or less
- Pumping Range: 7-36 inches

Medium Duty Mercury Pump Switch

- Wide angle, mercury-activated pump switch directly controls pumps
- Electrical: 1 HP, 120 VAC; 2 HP, 230 VAC
  Max. pump run current: 15 Amps - 120V; 12 Amps - 230V
  Max. pump start current: 55 Amps - 120V; 35 Amps - 230V
- Pump up or pump down; with or without plug
- Pumping Range: 6.5-13.5 inches

Medium Duty Mini Mercury Pump Switch

- Wide angle, mini mercury-activated pump switch directly controls pumps
- Electrical: 1/2 HP, 120 VAC; 1 HP, 230 VAC
  Max. pump run current: 13 Amps - 120V; 8 Amps - 230V
  Max. pump start current: 40 Amps - 120V; 20 Amps - 230V
- Pump up or pump down; with or without plug
- Pumping Range: 6.5-19 inches

Medium Duty Limited Space Pump Switch

- Limited space, mechanically-activated control switch activates control panels and alarms in high or low levels
- Electrical: 1/2 HP, 120 VAC
  Max. pump run current: 13 Amps - 120 VAC
  Minimum pump start current: 60 Amps - 120V
- Pump up or pump down; with or without plug
- Pumping Range: .75-6.5 inches

Medium Duty Dual Mechanical Pump Switches

- Wide angle, mechanical-activated control switch activates control panels and alarms in high or low levels
- Electrical: 15 FLA, 90 LRA; 120 or 240V
  Max. pump run current: 15 Amps - 120V; 15 Amps - 240V
  Max. pump start current: 90 Amps - 120V; 90 Amps - 240V
- Pump up or pump down; with or without plug
- Pumping Range: 3-48 inches

ACCESSORIES

Pipe Mount

- Includes cable clamp and stainless hose clamp for anchoring float cable
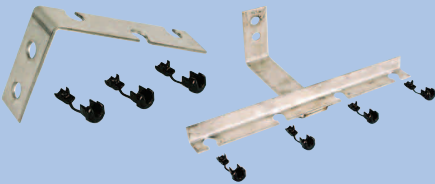- Secures 18/16 gauge, 14 gauge and 12 gauge cable in vertical direction

Cord Weight

- Provides accurate pivot point for suspended float switches
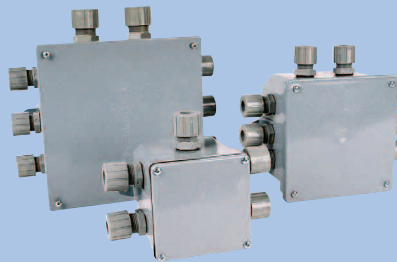- Slides on cord

Cable Weight

- Provides accurate pivot point for suspended float switches
- Clips to cable

Float Brackets

- 304 Stainless steel
- Secures float and power cords inside of tanks
- Compact design requires minimum space
- Available with 3 or 4 black cord snubbers

Junction Boxes

- Non-corrosive poly enclosures
- Provides a convenient location to connect wiring and protects wiring from outside elements
- Many configurations available
- Includes motor, control and float cord grips

Poly Pedestal

- Convenient mounting base for indoor/outdoor use
- For use with 10" x 8" enclosures
- Covered access opening
- Installs and wires quickly

We've Got On-Site Under Control

When you think of on-site, think **CSI Controls**®. We offer a complete line of **quality, affordable on-site control products** for residential and commercial water and wastewater applications, including electro-mechanical and digital control panels; indoor and outdoor alarm systems; control switches; pump switches; and accessories to complete any on-site installation. CSI will also work with you to design special configuration panels for your application, including three phase, start kits, auto dialers and more.

Founded in 1993, we apply our company philosophy to deliver **outstanding performance** while always striving to **exceed our best** in every aspect of our business. We believe in service beyond expectation, achieved through a constant desire to anticipate and satisfy evolving customer needs.

As a **UL Listed panel shop** with over **52,000 square feet of manufacturing space** in Ashland, Ohio, CSI builds each and every product to the highest standards. We test our products in-house prior to shipment for optimum performance.

In 2008, CSI Controls® became an **ESOP** company (Employee Stock Ownership Plan). Each and every employee is an **"employee-owner"** and has a vested interest in the success of the company. This ensures you are getting the **absolute best** that CSI Controls® has to offer.

CSI Controls® is proud to be a **member** of the following industry associations: Water Environment Federation (**WEF**), National On-site Wastewater Recycling Association (**NOWRA**), Florida On-site Wastewater Association (**FOWA**) and Ohio On-site Wastewater Association (**OOWA**).

In addition to on-site applications, CSI Controls specializes in custom control panels built to individual specifications for a wide variety of applications, including sewage lift stations, irrigation systems, pressure booster systems, flood control, aerobic treatment, grinder stations, process control and more. Our innovative engineering team designs complete control systems to meet your specific needs, no matter how unique.

With our industry knowledge and experience, we can help you with any on-site installation. Call us toll free at **1-800-363-5842** or visit us on-line at **www.csicontrols.com** to learn more about our complete line of control products.

We've Got On-Site Under Control

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