LEVEL MONITORING

CONTROL SOLUTIONS

Using Patented
C-Level™ Sensor
Floatless Technology

5 YEAR LIMITED WARRANTY

SJE RHOMBUS™

www.sjerhombus.com

C-LEVEL™ SENSOR

Innovative Floatless Technology

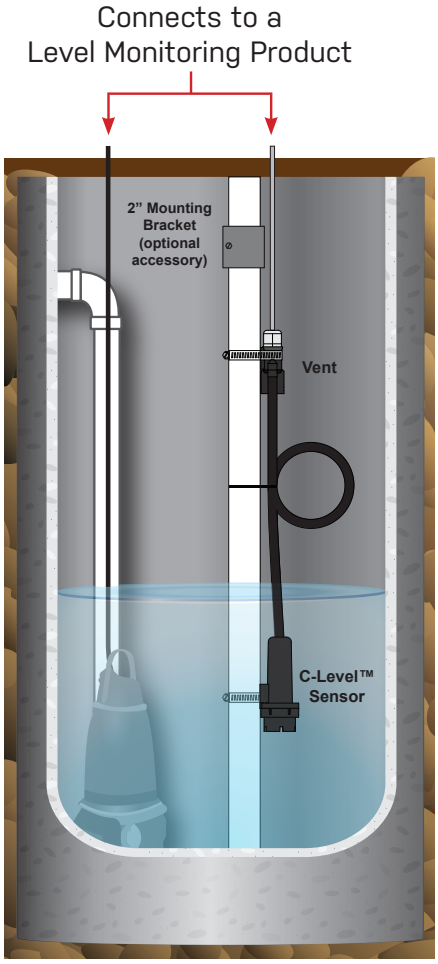
The simple and accurate C-Level™ Sensor converts the water pressure in a tank into a low voltage electrical signal that is read by a variety of level monitoring products manufactured exclusively by SJE Rhombus. This innovative technology provides for continuous level monitoring of tank applications and is backed by an industry-leading five-year limited warranty.

C-Level™ Sensor Features:
- Operates on low voltage
- Compact, non-moving design works well in wastewater pump tanks, confined space applications and systems with a high grease content
- One sensor replaces up to four floats
- Easy to install
- Available in cable lengths up to 300 ft. (91.44 m)
- Excellent alternative to mercury floats

C-Level™ Sensor is available for:
- Installer Friendly Series® control panels
- Installer Friendly Series® In-Site® control panels
- EZ Series® In-Site® CL control panels
- C-Con™ converter box
- SJE Level Monitor™ CL system

C-Level™ Sensor Models
CL40 - sensing range up to 40 inches (101.6 cm)
CL100 - sensing range up to 100 inches (254 cm)

US Patent No. 8,567,242; 8,336,385 and 8,650,949.



LEVEL MONITORING PRODUCTS

C-Con™ Converter Box*

Converts most control panels to floatless technology.

The C-Con™ converts the signal from the C-Level™ sensor to simulate up to 4 float levels:

- NEMA 1 rated for indoor use
- Can be mounted inside a control panel
- Green power on indicator
- Four adjustable setpoints with red LED status indicators
- Adjust pump start/stop and alarm levels from converter box
- Simulate button for testing proper wiring of outputs
- Factory-installed input/output wires
- Excellent for systems with a high grease content or confined space applications

*** C-Con™ Box available with CL40 model only**

SJE Level Monitor™ CL System

With a glance, see the level in your tank.

The SJE Level Monitor™ CL system uses the C-Level™ sensor to monitor the level in the tank:

- 10 segment LED scalable bar graph displays level as percentage of full tank
- Green power on LED indicator
- Red alarm LED indicator; audible alarm
- Alarm level and set buttons for adjusting alarm setpoint
- Test/silence button
- Auxiliary contacts (NO/NC)

Installer Friendly Series® Control Panels

Single Phase, Three Phase; Simplex, Duplex; Demand or Timed Dose

IFS control panels provide greater control of septic systems via a simple-to-use touch pad for programming and monitoring pump and float operation in on-site applications. IFS panels read the electrical signal from the C-Level™ sensor and displays this level in inches or centimeters on the panel display for easier monitoring of the system. The **touch pad display** allows the user to easily view and adjust system settings from the control panel, eliminating the need to go into the tank for manual adjustment:

- Pump activation levels
- Alarm levels
- Pump run indicators
- Status indicators (including low water alarm)
- HOA switch(es)
- Hand mode safety features
- Elapsed time meter(s)
- Cycle counter(s)
- Alarm counter
- Lead/lag selector (toggles pump operation in duplex models)
- Override counter (timed dose mode)
- Can be easily set to demand or timed dose in the field

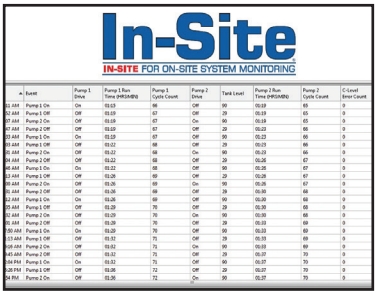
Installer Friendly Series® In-Site® Data Logging Control Panels

Single Phase; Simplex, Duplex; Demand or Timed Dose

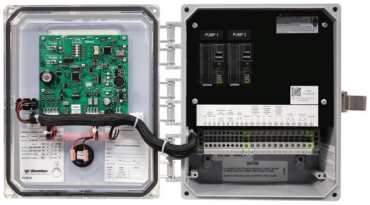
IFS In-Site® control panels offer all the features of an IFS panel, **PLUS data logging**! Monitor system events by plugging a flash drive into the USB port located on the inner door to download system history. The pre-loaded software on the flash drive formulates the data for you, creating easy-to-read reports so system conditions can be quickly identified and corrected.

Logged events include:

- Pump run times
- Pump cycles
- Alarm conditions
- Power outages
- Service calls



Event Log Screen

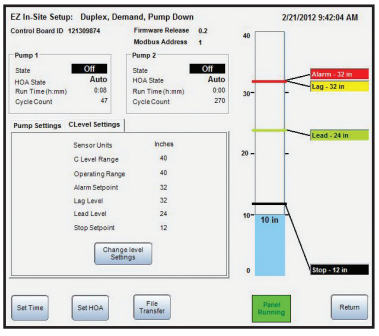


EZ Series® In-Site® CL Control Panels

Single Phase; Simplex, Duplex; Demand or Timed Dose

In-Site to On-site Just Got Easier!

The EZ Series® In-Site® CL data logging control panel is now available with **wireless Bluetooth® connection** for your smartphone or tablet. Now there is no need to open the panel for configuration, viewing status or downloading data using the new **EZ Connect™ Mobile App**.



EZ Connect Programming Screen

- Data logging up to 4,000 system events
- Continuous level monitoring using the C-Level™ sensor (optional back up alarm floats)
- Demand or timed dose (easily converted in the field)
- Configurable via Windows® PC and serial cable
- Includes Bluetooth® Smart module
  - Enables wireless connection to Adnroid or iOS device
  - Eliminates need for PC
  - Eliminates need to open panel for configuration, viewing status or data download
  - Enables safe and secure access to the control panel in all weather conditions

C-LEVEL™ SENSOR SPECIFICATIONS

ELECTRICAL:
Input Power: 12 VDC 100 mA max.
Output: Variable Frequency Signal

CABLE LENGTH:
20 Gauge Cable, 300 feet (91 meters) maximum spliced length
NOTE: Cable splicing permitted only if done in dry water proof enclosure and shielded wires are used.

PHYSICAL:
Sensor Length: 5.0 inches (12.7 cm)
Sensor Diameter: 2.0 inches (5 cm)
Mounting: Stainless steel cable clamp on sensor and vent housing

OPERATING:
Fluid Compatibility's: water, sewage
Maximum Submersion Depth Sensor: 10 ft. water (3 m water)
Maximum Environment Temperature: 120°F (50°C) wet or dry
Sensor Zero Point: Approximately 2 inches from bottom of sensor
Recommended Minimum Operation Level:
3 inches water measured from sensor zero point
Repeatability: +/- 5% full scale
Range: 40 inch or 100 inch (depending on model)

COMPONENT PARTS:
Sensor and Vent Housing
Material: PVC
Color: Black

ISOLATION BLADDER:
Bellow design to increase surface area and reduce effect of temperature change
Oil filled to isolate sensor from sewage or corrosive environment

VENT TUBING:
Material: PVC
Electrical cable ran inside vent tube to increase kink resistance of tube preventing plugging of vent

VENT:
Breathable membrane which stops water intrusion

ELECTRIC CABLE:
Jacket Type: Type CM 3 wire 20AWG with Shield
Jacket Material: PVC

SJE RHOMBUS™

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In addition to many state on-site and rural water associations, SJE Rhombus® is proud to be members of these national industry associations:

Submersible Wastewater Pump Association SWPA MEMBER
SSPMA MEMBER
NOWRA National Onsite Wastewater Recycling Association
Water Environment Federation® Preserving & Enhancing the Global Water Environment
Member of: Hydraulic Institute

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