

# Cathodic Protection Rectifier

## C.P. Sentinel Aqua-Line:

**Integrated Rectifier Technologies C.P. Sentinel Aqua-Line** rectifiers provide the precise control requirements needed in today's waterworks applications. Utilizing the state of the art **SENTRY CONTROLLER™**, the C.P. Sentinel Aqua-line units deliver unmatched performance and features to the water and wastewater industries.

### Standard Features



- "Touch-Safe" hinged instrument panel segregates operator functions from "live" rectifier components
  - NEMA 4X, FRP enclosure with stainless steel hardware
  - Lightweight, powder coated aluminum instrument panel and chassis
  - Fully automatic, IR-Free control of C.P. system potential
  - Potential control accuracy within  $\pm 5$  mV of set point
  - Current & Voltage control within  $\pm 1\%$  of set points
  - Automatic Potential, Current & Voltage Mode operation with seamless, automatic transfer between operational modes
  - Reference Cell input resistance > 20 Meg-Ohms
  - LED status indication for operating mode and controller power
  - Innovative "anti-spiking" circuitry prevents current overshoot during current interrupt mode
  - Manual mode operation: DC output is adjusted via 25 steps of transformer taps exclusive of controller circuit
  - SCR / Diode rectification module with surge protection
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- Transformer: min. 95% efficient, Class "H" rated
  - Overload / short-circuit protection by fully magnetic circuit breaker including AC secondary & DC output fusing
  - 3½ digit, high intensity LED metering, accuracy  $\pm 0.2\%$
  - High energy AC & DC surge & lightning protection
  - -40 to +50°C (-40 to 122°F) operating ambient
  - Operating humidity range: 0 – 100%
  - **SENTRY CONTROLLER™** maintains protection criteria required by AWWA Standard D104-97
  - One year Warranty
  - CSA approved



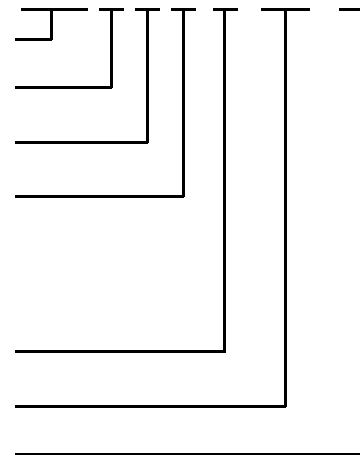
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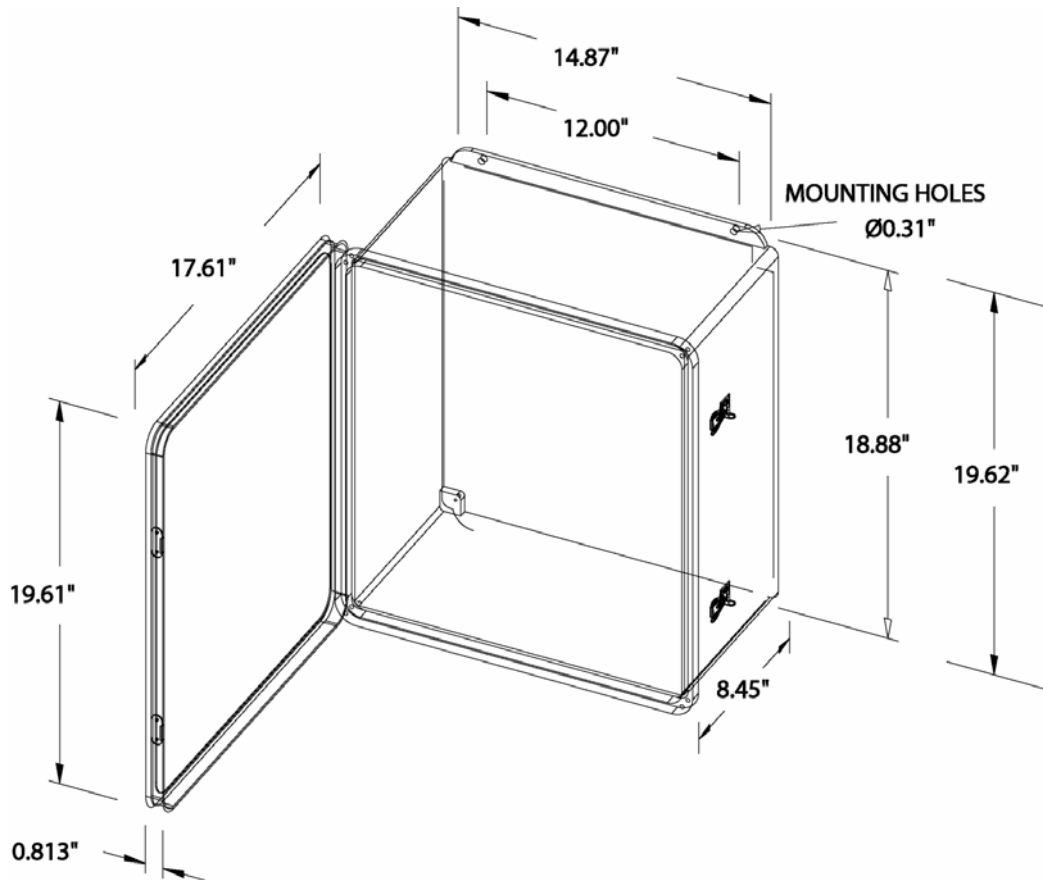
# C.P. Sentinel Aqua-Line Model Coding

## CAASAS 30-16 A<sub>b</sub>P

C.P. SENTINEL AQUA-LINE  
 AIR-COOLED TYPE  
 SILICON RECTIFIER TYPE  
 AC INPUT  
 A - 115 VAC  
 OPTIONAL INPUTS  
 (CONSULT FACTORY)  
 S - SINGLE PHASE  
 DC VOLTAGE RATING  
 DC CURRENT RATING



**COMMON OPTIONAL FEATURES**  
**A<sub>b</sub>** - POTENTIAL MONITOR ALARM CIRCUIT  
 WITH DOOR MOUNTED LED ALARM LAMPS  
**D** - UPGRADED SCR - DIODE VOLTAGE (PIV) RATING  
**F** - UV RESISTANT SOLARGUARD™ FRP CABINET  
**J** - NON-STANDARD AC INPUT FREQUENCY (50 Hz.)  
**P** - AUXILIARY POSITIVE OUTPUT CIRCUIT  
 c/w 5 OHM 100 WATT RHEOSTAT  
**W** - SPECIAL ENCLOSURE CONSTRUCTION



STANDARD CP SENTINEL Aqua-Line MODELS & RATINGS		
MODEL NUMBER	VOLTAGE	CURRENT
CAASAS 20-5	20 VOLTS	5 AMPERES
CAASAS 30-8	30 VOLTS	8 AMPERES
CAASAS 30-16	30 VOLTS	16 AMPERES