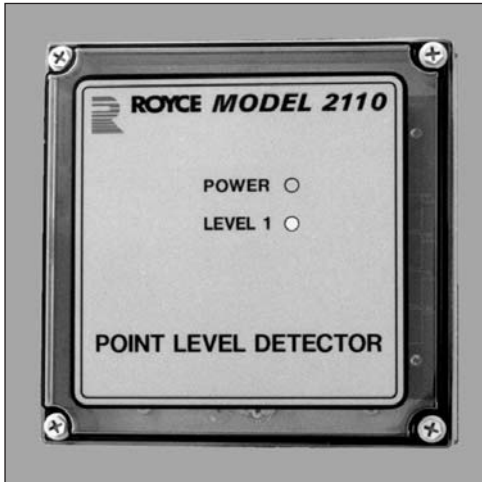


DATA Sheet

Point Level Detectors & Sensors



Model 2110

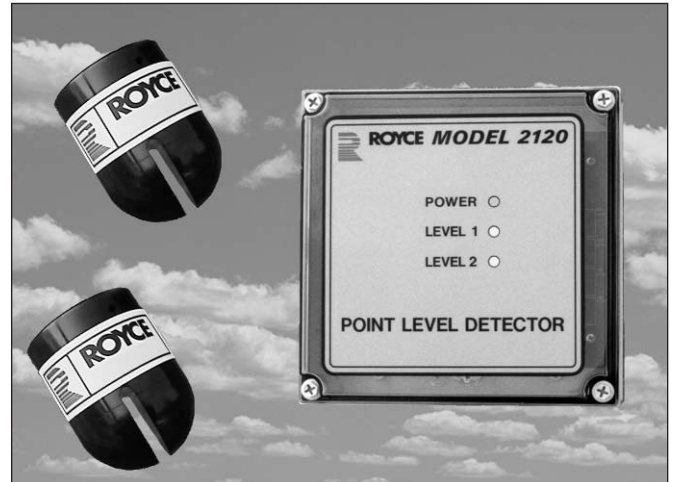
The Royce answer to accurate point level detection can be found in the **Model 2110** and **Model 2120** Point Level Detectors. An optical system, these instruments are the first point level detectors available in the industry with self-cleaning capabilities built into the sensor.

Features

- Programmable Cleaning Intervals for Sensor Optics
- Push-button Sensor Calibration
- Two Setpoint Relays
- NEMA4X IP66 UL Listed Enclosure

Applications

- Potable Water Clarifiers
- Filter Back Wash Holding Tanks
- Moving Bridge Clarifiers
- Wastewater Slump Blanket Levels
- Any Tank with a Liquid/Solids Interface where stationary mounting of the sensors is possible



Model 2120

Simplicity in design with field proven technology makes the Royce Point Level Detectors the best choice for interface detection applications. The microprocessor-based electronics of the detector are programmed for high and low setpoints, relay time delays, and self-cleaning optics by adjusting the setup switches on the printed circuit board.

Sensor Calibration

- Place Sensor in Clean Water
- Push the "zero-button"
- Repeat Procedure on a Yearly Basis

It's that simple.

The system can be used to simply alarm an indicated level or it can be configured to fully control the interface level by supplying direct pump control.

As with all Royce instrumentation, we had the operator in mind at the design stage.

Sensor Self Cleaning

The sensor may be cleaned with customer supplied air or water, or with the compact Royce air compressor assembly.

Model 2110 Specifications

The **Model 2110** has a single optical **Model 21A** sensor for interface detection.

Setpoint Range: 500-35,000 mg/l

Standard Outputs: Two programmable set point relays
Form C rated 250 VAC, 7 amps resistive

Self-Cleaning: Air or Water Jet (For use with house air or water or Royce Compressor system)

Cleaning Interval: 0.25 – 2 hrs

Input Power: Switch selectable 115/230 VAC,
60/50 Hz.

Enclosure: NEMA4X (IP66) polycarbonate UL Listed

Dimensions: 6"W x 6"H x 3"D
152mm W x 152mm H x 76mm D

Options: Rail Mounting Kit

Model 21A Sensor Specifications

Type: Single-gap optical light absorption sensor

Setpoint Range: 500-35,000 mg/l

Repeatability: ±1% of reading or ± 30mg/l, whichever is greater

Temp limit: 0-50 degrees C

Pressure: 0-50 PSIG

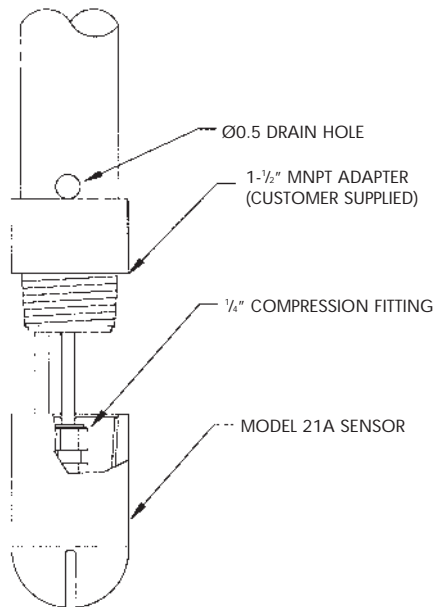
Self-Cleaning: Air or Water Jet (For use with house air or water or Royce Compressor system)

Cable termination: Tinned leads

Mounting: 1-1½" PVC Schedule 40

Construction: Molded polymer body Chemically Resistant polyurethane optics

Options: Rail Mounting Brackets



Model 2120 Specifications

The **Model 2120** has two **Model 21A** sensors for the detection of two different interface levels. It can be used to control a blanket between two desired levels by direct operation of the extraction pump.

Setpoint Range: 500-35,000 mg/l

Standard Outputs: Two programmable set point relays
Form C rated 250 VAC, 7 amps resistive

Self-Cleaning: Air or Water Jet (For use with house air or water or Royce Compressor system)

Cleaning Interval: 0.25 – 2 hrs

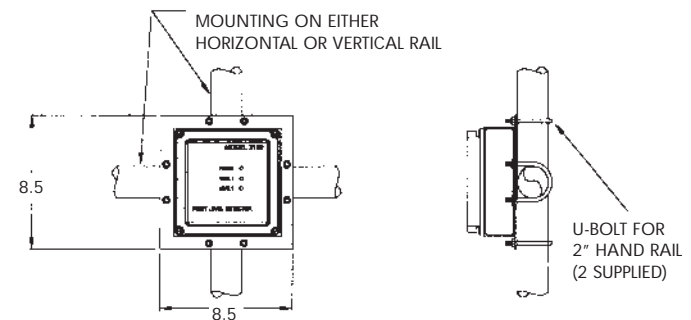
Input Power: Switch selectable 115/230 VAC,
60/50 Hz.

Enclosure: NEMA4X (IP66) polycarbonate UL Listed

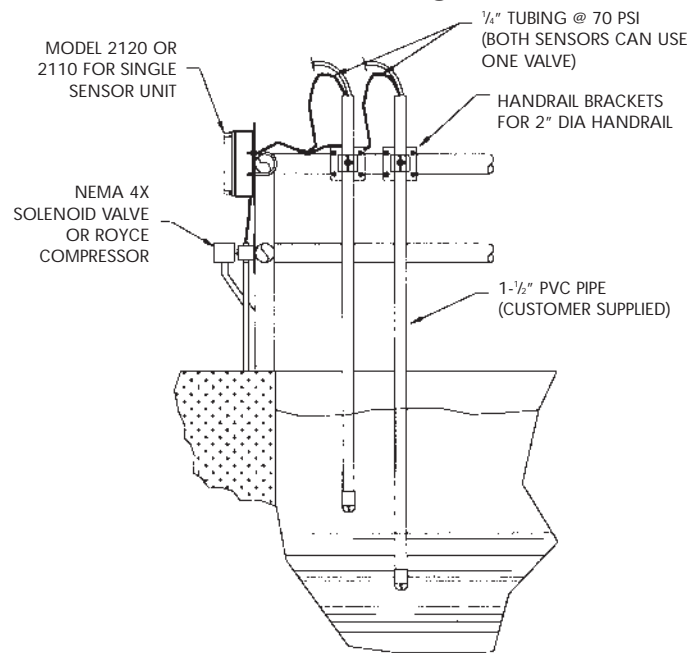
Dimensions: 6"W x 6"H x 3"D
152mm W x 152mm H x 76mm D

Options: Rail Mounting Kit

Detector Outline & Mounting



Sensor Outline & Mounting



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