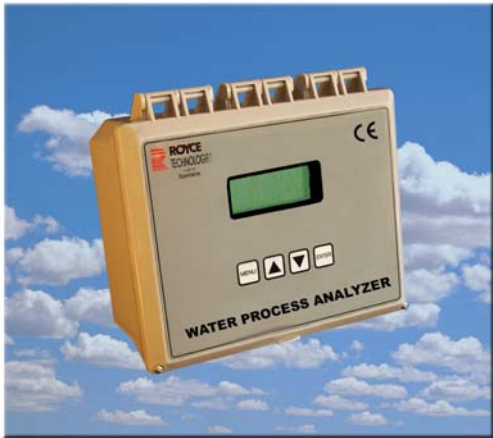


DATA Sheet

Suspended Solids Systems



- > Automatic ranging
- > Phased array source for automatic color compensation control (**Model 73B**)
- > Simple to use insitu calibration
- > Menu driven text help screens
- > Automatic ambient light compensation
- > Electronic self-diagnostics
- > Digital communications with isolation and surge protection
- > Isolated current or voltage outputs
- > Two setpoint relays per channel

Model 7110/7120 Single & Dual Channel Analyzers

The **Royce Model 7110** Single Channel Suspended Solids Analyzers provides reliable, continuous operation in waste treatment plants, rivers, lakes and other aqueous systems. This analyzer incorporates the same award winning technology found in all Royce Suspended Solids Systems. It has the capacity to provide the advanced features found in other Royce Models and incorporates the latest Profibus communications as an option.

The Model 7110 can use any of the Royce Series 70 TSS Sensors. Some examples are shown below.

The **Royce Model 7120** is a dual channel Suspended Solids analyzer that incorporates the same technological advances as the Model 7110. The Model 7120 reduces installation costs where multiple points need to be monitored. Again, award winning technology and advanced design combine to provide the user with dramatic, cost effective, easy to use Suspended Solids monitoring and control in a two channel analyzer.

The Model 7120 can use any of the Royce Series 70 TSS Sensors. Some examples are shown below.



**Model 72A Low Range
Sensor**



**Model 73B/75A Mid-Range
Sensor**



**Model 74A/76A High Range
Insertion Sensor**

Model 7110/7120 Suspended Solids Analyzer Specifications

Channels:

7110 is Single Channel
7120 is Dual Channel

Suspended Solids:

Range, 0 - 80,000 mg/l
Resolution, Sensor Dependent
Accuracy, Sensor Dependent

Instrument Ambient Conditions:

-10 to 50 Deg. C
Humidity, 0 to 100%

Input Power:

80 - 260 VAC, 50 - 60 Hz or 12 VDC

Outputs:

Two Isolated 4-20 mA for Suspended Solids per channel.
600 ohms maximum.
Two Relays with programmable hysteresis per channel.
10A resistive @ 250VAC
RS-485 Standard
Optional Profibus PA or DP communication.

Readout Device:

Harsh environment, four line, 20 Character LCD digital Display.
Backlit

Calibration:

Automatic, push-button In-Situ calibration to a known value.

Enclosure:

NEMA 4X (IP65)

Weight:

2.2 lbs., 1 kg

Sensors & Additional Options

Sensor Model 72A

Low Range; Optical; End of Pipe Mounted; Optional Air or Water Jet Cleaning
Range: 0 - 1500 mg/l, 0 - 500 NTU
Construction: Molded Polyurethane
Temp: 0 - 50 Deg. C.
Pressure: 0 - 50 PSIG
Light Compensation: Automatic Ambient Light Compensation

Sensor Model 73B/75A

Mid-Range; Color Compensated Optical; End of Pipe Mounted; Optional Air or Water Jet Cleaning
Range: 0 - 30,000 mg/l, 0 - 3%
Construction: Molded Epoxy/PVC
Temp: 0 - 50 Deg. C.
Pressure: 0 - 50 PSIG
Color Compensation: Automatic Color Compensation

Sensor Model 74A/76A

Model 74A High-Range;
Model 76A Mid-Range;
Optical; Pipe Insertion;
Optional Air or Water Jet Cleaning
Range:
Model 74A = 0 - 80,000 mg/l, 0 - 8%
Model 76A = 0 - 30,000 mg/l, 0 - 3%
Construction: Stainless Steel
Temp: 0 - 50 Deg. C.
Pressure: 0 - 50 PSIG

Additional sensor models and mountings are available.

Ask for brochure # TSS-9

Contact Royce Technologies for full sensor specification sheets.



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