

Model 711 Portable Suspended Solids and Interface Level Analyzer



The Royce **Model 711** Portable Suspended Solids/ Interface Level Analyzer is a rugged, waterproof instrument designed for the rigors of remote sampling. The meter provides reliable operation in waste treatment plants, rivers, lakes and other aqueous systems. The meter will read in either grams per liter when in the suspended solids mode or relative density percentage while in the interface level mode of operation.

The **Model 711** stores the calibration values for suspended solids and interface level in two separate non-volatile memory locations allowing the user to switch between operational modes without having to recalibrate. The net effect is two analyzers in one.

Model 711 Specific Features

- ◆ **Two analyzers in one package:**
Switch from Solids measurement to Interface level without losing calibration.
- ◆ **Automatic ranging:**
Goes completely over the operating range of the analyzer with manual adjustment.
- ◆ **Simple, insitu calibration:**

Due to the full utilization of the microprocessor, calibration values are stored so that recalibration is not required on a daily basis. If the sensor is cleaned after use, monthly calibration is usually more than sufficient for proper operation in either mode of calibration.

The **Model 711** analyzer utilizes the **Model 71** medium range sensor. The **Model 71** is a rugged, reliable sensing element that has polymer optical grade lenses. It was designed specifically to meet the rigorous demands that are a requirement for a portable sensor.

Model 711 / 71 Specifications

Range:

0 - 10 grams per liter (0 to 10,000 mg/l)

Readout Device:

Harsh environment, 1/2" LCD digital display

Input Power:

Standard 9V battery

Enclosure:

Waterproof

Size:

7 inches long
3.2 inches wide
1.5 inches deep

Weight:

1.5 pounds (.68 kgms)

Type:

Single Gap, Optical

Accuracy: $\pm 5\%$ of reading or ± 100 mg/l, whichever is greater

Repeatability:

$\pm 1\%$ of reading or ± 20 mg/l, whichever is greater

Range:

0 - 10 g/l

Operating Limits:

Temperature, 0 - 65° C
Pressure, 0 - 50 PSIG

Size:

4 inches long
2 inches diameter

Weight:

1 pound (.45 kgms)

Construction:

Polyurethane body
Optical grade polymer lenses

Supplied Standard with Model 711 System

- ◆ **Model 711** rugged Suspended Solids analyzer
- ◆ **Model 71** rugged SS sensor with 8 meters or 25 feet of cable and waterproof, military connector. Cable is scaled in one foot increments.
- ◆ Velcro "grip strap" which can convert to a handy belt holder.
- ◆ 9V battery.
- ◆ Detailed instruction manual.