

Royce Dissolved Oxygen Analyzer

Models 9110/9120 Analyzers

The Royce Models 9110 & 9120 are designed to offer the latest Royce Dissolved Oxygen design technology in an affordable package. They also have the capacity to provide advanced features found in other Royce Models and incorporate the latest Modbus communications (Profibus DP is optional). The 9110 is Single Channel and the 9120 is Dual Channel. Both can use the Royce Model 99 (Standard) cartridge DO sensor and the Model 95A rechargeable DO sensor. Air and Water Jet Cleaning are optionally available.

Models 9210/9220 Analyzers

The Royce Models 9210 & 9220 analyzers incorporate the same technological advances as the Models 9110 & 9120. They also have the capacity to provide the advanced features found in other Royce Models and incorporate the latest Modbus communications (Profibus DP is optional). The 9210 is Single Channel and the 9220 is Dual Channel. Both use the exclusive Royce Model 96A Electro-Chemical Self-Cleaning sensor. Air and Water Jet Cleaning are optionally available.



**MODEL 95A
DISSOLVED OXYGEN SENSOR**



**MODEL 96A
ELECTRO-CHEMICAL
SELF-CLEANING SENSOR**



**MODEL 99 CARTRIDGE
DISSOLVED OXYGEN SENSOR**

(8182)63-90-72
+7(7172)727-132
(4722)40-23-64
(4832)59-03-52
(423)249-28-31
(844)278-03-48
(8172)26-41-59
(473)204-51-73
(343)384-55-89
(4932)77-34-06
(3412)26-03-58
(843)206-01-48

(4012)72-03-81
(4842)92-23-67
(3842)65-04-62
(8332)68-02-04
(861)203-40-90
(391)204-63-61
(4712)77-13-04
(4742)52-20-81
(3519)55-03-13
(495)268-04-70
(8152)59-64-93
(8552)20-53-41

(831)429-08-12
(3843)20-46-81
(383)227-86-73
(4862)44-53-42
(3532)37-68-04
(8412)22-31-16
(342)205-81-47
- - (863)308-18-15
(4912)46-61-64
(846)206-03-16
- (812)309-46-40
(845)249-38-78

(4812)29-41-54
(862)225-72-31
(8652)20-65-13
(4822)63-31-35
(3822)98-41-53
(4872)74-02-29
(3452)66-21-18
(8422)24-23-59
(347)229-48-12
(351)202-03-61
(8202)49-02-64
(4852)69-52-93

Royce Dissolved Oxygen Analyzer

Model 9110/9120 Analyzer Specifications

Channels:

9110 is Single Channel
9120 is Dual Channel

Sensor Type:

Model 95A or Model 99 Sensors

Dissolved Oxygen:

Ranges, 0 - 99 mg/l
Resolution, 0.01 mg/l from 0 - 9.99
0.1 mg/l from 10.0 - 99.0
Accuracy, +/- 0.1 mg/l

Temperature:

0 - 50°C x 0.1°C or
32 - 122°F x 1°F
Accuracy, +/- 1% of reading

Stability:

0.1 mg/l

Input Power:

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

Outputs:

Two Per Channel Isolated 4 - 20 mA for D.O. & Temp.
600 ohms maximum
Two Relays Per Channel with programmable hysteresis
10A resistive @ 250VAC
RS - 485 & Modbus (Standard)
Profibus DP (Optional)

Readout Device:

Harsh environment, 4 line, 20 Character, LCD digital display
Backlit

Display:

DO and Temperature (Each Channel)

Calibration:

Automatic, calibrates for DO, altitude, salinity

Enclosure:

NEMA 4X (IP65)

Model 9210/9220 Analyzer Specifications

Channels:

9210 is Single Channel
9220 is Dual Channel

Sensor Type:

Model 96A Patented Electrochemical Self Cleaning
Sensor

Dissolved Oxygen:

Ranges, 0 - 99 mg/l
Resolution, 0.01 mg/l from 0 - 9.99
0.1 mg/l from 10.0 - 99.0
Accuracy, +/- 0.1 mg/l

Temperature:

0 - 50°C x 0.1°C or
32 - 122°F x 1°F
Accuracy, +/- 1% of reading

Stability:

0.1 mg/l

Input Power:

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

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Two Per Channel Isolated 4 - 20 mA for D.O. & Temp.
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