



# 70Z

**Product code:** 70Z

**Manufacturer:** City Technology

## MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-2 ppm O<sub>3</sub>

**Maximum Overload:** 5 ppm O<sub>3</sub>

**Filter:** None

**Sensitivity:** 7.2 mA/ppm ±2.3 mA/ppm

**Response Time (T<sub>90</sub>):** <150 seconds @ 20°C

**Baseline Offset (clean air):** 0 ppb O<sub>3</sub> to 120 ppb O<sub>3</sub> equivalent

**Zero Shift (+20°C to +40°C):** <36 ppb O<sub>3</sub> equivalent

**Resolution:** 20 ppb when used with recommended electronics

**Repeatability:** 5% of signal

**Linearity:** Linear

## ELECTRICAL

**Recommended Load Resistor:** 33 Ω

**Bias Voltage:** Not Required

## MECHANICAL

**Weight:** 17 g

**Housing Material:**

- Cap: Polycarbonate
- Body: Stainless Steel
- Base: ABS

**Orientation:** Any

## ENVIRONMENTAL

**Operating Temperature Range:** -20°C to +50°C

**Recommended Storage Temp:** 0°C to 20°C

**Operating Pressure Range:** Atmospheric ± 10%

**Operating Humidity Range:** 15 - 90% RH non-condensing



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#### **LIFETIME**

**Long Term Sensitivity Drift:** < 5% signal loss/year

**Expected Operating Life:** Two years in air

**Storage Life:** 6 months in CTL container

<b>Life expectancy</b>	> 24 months
<b>Measurement range</b>	0-2 ppm
<b>Target Gas</b>	Ozone
<b>Response Time</b>	< 150 seconds (T90)
<b>Output</b>	$7.2 \pm 2.3 \mu\text{A/ppm}$