



The GENie-O3 is a portable, hand-held, accurate gas calibration instrument for calibrating ozone gas sensors. The instrument requires a base unit (which provides a micro-processor based user interface and control system) and an O₃ gas source module that generates ozone in user adjustable quantities using an ultraviolet lamp. The LCD display is capable of showing the menu structure in English, French, German and Spanish. It is powered by 4 heavy duty AA alkaline batteries that provide approximately 5 hours of continuous operation (at 0.55 ppm). The gas source does not expire and offers up to 500 hours of source gas use. The delivery hose comes standard with the unit offering a 1.5 m long x 4.76 mm OD (5 ft long x 3/16 in OD) Teflon lined hose for delivering the gas to the sensor or calibration adaptor. It also comes with a nylon carrying case for convenience and protection. The front of the carrying case is clear plastic, allowing the unit to be operated while within the case.

The GENie-O3 should be sent back to the factory after 100 hours of operation or annually for calibration to ensure proper operation of the ultraviolet light source, the flow meter and to replace the internal charcoal filter to promote optimum performance.

KEY FEATURES

- » Hand held, rugged design
- » 500 hours of gas source use
- » User adjustable gas concentration outputs
- » Gas source does not expire and is non-hazardous for transport
- » Simple to use
- » Traceable to NIST standards



Nylon carrying case



TECHNICAL SPECIFICATIONS

GAS TYPE

| | |
|-------------------------|--------------------------------------|
| Ozone (O ₃) | Calibration range 0.2 ppm to 1.0 ppm |
| Source Life | 500 hours |
| Accuracy | ±10% |
| Repeatability | ±5% |

MECHANICAL

| | |
|-----------------------------------|---|
| Weight | 907 g (2 lb) |
| Size | 127 mm W x 98.55 mm H x 79.5 mm D (5.0" W x 3.88" H x 3.13" D) |
| Tubing (supplied) | 1.5 m long x 4.76 mm OD (5 ft long x 3/16 in OD) Teflon lined hose |
| Flow Rate | Range 0.2 @ 1.0 LPM to 1.0 @ 0.2 LPM |
| Ultraviolet Light Source Lifespan | 500 hours of operation (should be factory calibrated every 100 hours or annually) |

ELECTRICAL

| | |
|--------------|-------------------------|
| Power Source | 4 alkaline AA batteries |
| Battery Life | approximately 6 hours |
| Warm-up Time | approximately 2 minutes |

USER INTERFACE

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|----------------|--|
| Display | LCD display |
| Push Buttons | SELECT and POWER push button type switches |
| Menu Languages | English, French, German, Spanish |

ENVIRONMENTAL

| | |
|-----------------------|--------------------------------|
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Humidity | 0 - 100% RH (intermittent use) |

CERTIFICATIONS

Conforms to: EC Directive 89/336/EEC in accordance with the provisions of Statutory Instrument 2372
 Conforms to: EN 50081-1 and EN 50082-1

PRODUCT CODES

| | |
|---------------------|--|
| GENIE-BASE | Base Unit for all GENIE Calibration Systems (required if not purchasing the GENIE-O3-KIT) |
| GENIE-O3 | Ozone module with gas source (100 hours), includes a 1.5 m long x 4.76 mm OD (5 ft x 3/16 in OD) Teflon lined hose, nylon carrying case, magnetic screwdriver, batteries and manual. <i>Does not include Base unit.</i> |
| GENIE-O3-UV | Replacement Ultraviolet Lamp (lifespan 500 hrs) - used to generate the Ozone gas inside the O3 module. |
| GENIE-O3-KIT | Complete System - Includes one base unit, one Ozone module and one 12 pack of O3 vials, a 1.5 m long x 4.76 mm OD (5 ft x 3/16 in OD) Teflon lined hose, nylon carrying case, magnetic screwdriver, batteries and manual |