

DATA SHEET: EX-GDT-O3 Remote Ozone Tester

Continuous Online Monitoring for Industrial and Hazardous Environments

1. PRODUCT OVERVIEW

The **EX-GDT-O3** is a high-performance remote ozone tester designed for continuous online detection in diverse industrial and hazardous environments. Built on advanced electrochemical principles and featuring a precision sensor imported from Switzerland, it delivers rapid response and exceptional stability. The instrument is engineered with a robust explosion-proof design, making it suitable for safety-critical monitoring in petrochemical, pharmaceutical, and environmental sectors.

2. KEY FEATURES

- High-Definition OLED:** Features a 1.54-inch industrial-grade OLED screen for direct and clear visualization of real-time data.
- Premium Swiss Sensor:** Utilizes an imported high-precision ozone sensor for consistent and reliable performance.
- Explosion-Proof Certification:** Rated Exd ib IIC T6 Gb, ensuring safe operation in volatile atmospheres.
- Versatile Signal Output:** Selectable output modes including 4-20mA, RS485 (Modbus), and optional wireless communication (433M).
- Smart Compensation:** Integrated full-range temperature compensation and data correction logic for enhanced measurement accuracy.
- Robust Hardware Protection:** Built-in safeguards against over-voltage, reverse connection, static discharge, and electromagnetic interference.
- Configurable Alarms:** User-programmable alarm thresholds with optional audible and visual signaling.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Detection Principle	Online Electrochemical Sensor
Measurement Range	0-5 / 20 / 50 / 100 / 200 PPM (Selectable)
Resolution	0.001 PPM (0-5 PPM) / 0.01 PPM (Others)
Detection Precision	$\leq \pm 2\%$
Linearity Error	$\leq \pm 1\%$
Response Time (T90)	≤ 30 s
Zero Drift	$\leq \pm 1\%$ Full Scale / Year

Feature	Specification
Repeatability	$\leq \pm 1\%$
Protection Rating	IP65
Explosion-Proof Grade	Exd ib IIC T6 Gb
Housing Material	Die-casting Aluminum
Dimensions (LWH)	215 × 140 × 93 mm
Net Weight	1.5 kg

4. APPLICATIONS

- **Petrochemical & Energy:** Gas leak detection and safety monitoring in refineries and power plants.
- **Pharmaceutical & Biotech:** Controlling ozone levels during sterilization and fermentation processes.
- **Environmental Monitoring:** Real-time air quality tracking in tunnels and industrial zones.
- **Agriculture:** Oversight of ozone concentration in specialized farming and greenhouse environments.

5. STANDARD ACCESSORIES

- EX-GDT-O3 Main Unit
- Magnetic Adjustment Rod
- Calibration Cover
- **Factory Calibration Report**
- User Manual

Manufactured by:
Honri Airclean Technology (Suzhou) Co., Ltd.