

PRODUCT DATA SHEET

WDG 1200/INSITU and WDG 1210/INSITU

Reliable flue gas analyzers using industry-proven zirconium oxide sensor technology

The WDG 1200/integral electronics Insitu and the WDG 1210/remote electronics Insitu are rugged, reliable flue gas analyzers for net oxygen that use industry-proven zirconium oxide sensor technology. The controller features precision temperature control for optimum stability and over-temperature protection. Internal diagnostics, Modbus interface and a 4-20 mA output are standard. The unique sensor design allows the entire sensor assembly, including the heater, to be removed without disturbing the outer protection tube which remains in the process. This makes field service fast and easy and, because there is no need to return the probe to the factory for repair, there is no expensive downtime.

Reliable flue gas analyzer

Zirconia oxide oxygen (O₂) sensor provides years of service in the most difficult of applications with minimal maintenance.

Unique sensor design

Internal probe sensor and components are field serviceable without the need to remove from the process flange.

Versatile user interface

Analog output, Modbus communication, and diagnostic fault indication as standard construction.



KEY BENEFITS

- Fast and easy field service due to unique sensor design
- No expensive downtime
- Optimum stability and over-temperature control
- 0.4 to 3.0 m probe lengths
- 2 inch NPT (M) to 6 inch flange connection

APPLICATIONS

- Combustion efficiency and control
- Gas, oil, or coal-fired boilers
- NOx reduction systems
- Shipboard boilers
- Excess air measurement
- Pollution control

KEY MARKETS

- Bio-fuel boilers
- Package boilers
- Power generation
- CCGT
- Petrochemicals
- Process industries
- Pharmaceuticals
- Incineration furnaces

PERFORMANCE SPECIFICATIONS

Display type	Single-line four-digit LED
Parameters	O ₂ concentration, calibration gas concentration, cell temperature, fault messages, cell/thermocouple information
Analog outputs	Single channel isolated 0 to 20; 4 to 20 mA menu selectable; 500 Ω max
Ranges	Selectable range 0 to 1% up to 0 to 25% v/v O ₂
Serial output	RS485 Modbus protocol (two-wire, half-duplex)
Alarm relays	Single pole changeover 2A at 30 V AC or DC.
Alarms	High/Low customer selectable, system fault, maintenance / Cal. in progress
Fault indications	LED indication and error codes
Calibration	Option to track or hold
Calibration type	Manual
Power supply	85 to 264 VAC; 48 to 62 Hz
Power rating	250 VA
Max. Distance to probe	985 ft (300 m)
Operating temperature	-5°F to 160°F (-20°C to 71°C)
Enclosure	NEMA 4X/IP65
Weight	5.95 lb / 2.7 kg
Compliance	Conforms to EN 50 081, EN 50 082, EN61010-1

SALES, SERVICE & MANUFACTURING

USA - Pennsylvania

150 Freeport Road
Pittsburgh PA 15238
Tel: +1 412 828 9040
Fax: +1 412 826 0399

USA - Delaware

455 Corporate Blvd.
Newark DE 19702
Tel: +1 302 456 4400
Fax: +1 302 456 4444

Canada - Alberta

2876 Sunridge Way NE
Calgary AB T1Y 7H9
Tel: +1 403 235 8400
Fax: +1 403 248 3550

WORLDWIDE SALES AND SERVICE LOCATIONS

USA

Tel: +1 713 466 4900
Fax: +1 713 849 1924

Brazil

Tel: +55 19 2107 4100

France

Tel: +33 1 30 68 89 20
Fax: +33 1 30 68 89 99

Germany

Tel: +49 2159 9136 0
Fax: +49 2159 9136 39

India

Tel: +91 80 6782 3200
Fax: +91 80 6780 3232

Singapore

Tel: +65 6484 2388
Fax: +65 6481 6588

China

Beijing
Tel: +86 10 8526 2111
Fax: +86 10 8526 2141
Chengdu
Tel: +86 28 8675 8111
Fax: +86 28-8675 8141
Shanghai
Tel: +86 21 5868 5111
Fax: +86 21 5866 0969



© 2018, by AMETEK, Inc. All rights reserved. Printed in the U.S.A. F-0108 Rev 10 (0718)
One of a family of innovative process analyzer solutions from AMETEK Process Instruments. Specifications subject to change without notice.

