PORTABLE FLUE GAS ANALYZER MODEL ATS-206A

FOR SINGLE OR MULTI GAS ANALYSIS
THE MOST POWERFUL, COMPACT, RUGGED & INTELLIGENT INSTRUMENT

ITS SIMPLE AUTOMATIC OPERATION, CONTINUOUS, MEASUREMENT AND DISPLAY OF GAS CONCENTRATION AND OTHER PARAMETERS MAKES IT A VALUABLE AID FOR ANALYSIS IN NUMEROUS APPLICATION.

ATS- 206A | ATS- 206A with Printer | ATS- 206A (Handheld)

APPLICATIONS

- In Quality Control Labs
- Process Analysis
- Stack Gas Analysis
- Fuel Efficiency Analysis
- Furnaces
- Diesel/Petrol Exhaust Emission
- Engine Exhaust Emission
- Internal Combustion Engines
- Burner Performance Monitoring
- Boiler Corrosion
- Ambient & Emission Monitoring
- Atmosphere Monitoring
- Burner Flame Control
- Underground Mines
- Excess Air Measurement

INDUSTRIES

- Power Generation
- Combined Cycle Gas Turbine Generators
- Petrochemicals
- Chemicals
- Process Industries
- Pharmaceuticals
- Incineration
- Cement
- Glass
- Steel
- Pulp and Paper
- Road Tunnels
- Furnaces

SPECIAL FEATURES

Complete Automatic operation
Complete Automatic operation including Calibration, “ON - OFF” & “SAMPLE” Keys only.

Self diagnostic check
Self diagnostic check & specific fault indication, Discrete LEDs for Sample Flow, Sensor Efficiency & Battery Condition.

Self-integrity Check
Continuous on-line full self-integrity check eliminates wrong measurements due to Instrument Faults.

USER Friendly
Visual Messages on status on functioning.

Proven Sensor Technology
Special purpose long life Sensors with Cross Interference filters to achieve high accuracy.

Oxygen Sensor Guaranteed for 4 years.

Display of Concentrations
Continuous, Stable & Automation display of concentrations - ensures maximum accuracy & reliability.

Sensor Technologies
Analyser is built up using sensors technology to suit specific application.

Batteries
Long life rechargeable batteries.

Diffusion or Suction with
Time tested, sturdy, high suction in-built pump supervisory circuit continuously monitors the pump against failure.

Disposable Cartridge Line Filter & Moisture Separator
Low porosity, disposable cartridge line filter & moisture separator suitably conditions the sample.

Calibration
A built-in procedure allows easy and automatic span sensor calibration using standard gas cylinder. Periodic zero calibration is automatic on demand.

Electronic Flow Meter
An automatic built-in system measures a flow of sampling gas to obtain a constant sampling volume.

Multi Fuel Selection
The fuel efficiency analyzer can be programmed for selection upto 10 fuels for calculating combustion values.

Gas Probes & Sampling System

Flue gas sampling probes with different lengths, shapes and max, operating temperatures Up to 1600°C are available to match various requirements of different applications. A sintered pre-filter is suggested for severe and having dust loded applications.

Heated Sampling Hose

A heated sampling Hose is available for high temperature applications. A heated hose allows flue gas sampling without condensation.

Continuous Monitoring

The industrial design and the advanced technology applied to the unit, allows it to perform long term gas analysis

PROBES - APPLICATION SPECIFIC AVAILABLE

Ambient CO Probe

An optional probe to monitor ambient CO concentration to keep the operator in a safe environment.

Gas Sniffer Probe

To detect and locate the precise position of a gas leak in a pipe network or equipment.

Smoke Index

Smoke Index measurement can be obtained using a special heated probe, supplied on request, and through a dedicated internal procedure that computes the required volume of gas sample flowing into the specific filter. The results can be obtained by comparison with the Smoke Index Table.

Gas Velocity

An internal procedure allows gas velocity measurements using the differential pressure inlet combined with a pitot tube.

Report of Calibration

Each instrument is factory calibrated and certified against Applied's Standard Gasses and shipped with a Report of Calibration stating the nominal and actual values and the deviation error.

OPERATION

On start up, the instrument automatically goes through complete integrity check, calibration cycle before displaying its readings for sampling. With the press of sampling switch, the analyzer automatically extracts the sample, analyses and display the concentrations of various gases in cyclic order. To stop or for further sampling at different locations or clearing with fresh air before switch off, one has to press the sample switch again.

SPECIFICATIONS

Display	: High quality Graphics LCD.
Calibration	: Automatic Zero On Start with fresh air sample.
SPAN Calibration	: automatic with calibration gas.
Response Time	: Maximum 30 seconds at 95% variation
Power Supply	: Internal battery pack with external charger 220V / 50 Hz
Working Temperature	: -5 to 55°C
Storage Temperature	: -20 to 45°C
Case	: Aluminum
External Dimension	: 170 X 100 X 130 mm
Weight	: 1.5 Kg. App.
Probe (Optional)	: (I) 8 mm, Dia SS 600 mm length with 2 meter Hose (Other material & length available)
	(ii) Sniffer Probe : To detect & locate the precise position of Gas leak in a pipe network.
Accessories	: Leather case with shoulder strap, battery charger, operational manual.

MEASURING RANGE (SPECIFY PARAMETERS OF YOUR INTEREST)

PARAMETER	SENSOR	RANGE	RESOLUTION	ACCURACY
O2	Electrochemical	0-25%V/V	0.1%	0.5%
CO	Electrochemical	0-4000,10000 PPB/PPM	1 PPB/PPM	± 2%
CO (A) Sensor Comp. For H2	Electrochemical	0-4000,10000 PPB/PPM	1 PPB/PPM	± 2%
CO(B)	Electrochemical	0-10%V/V	0.01%	± 2%
CO2	TCD/ NDIR	0-25% ,100% V/V	0.1%	± 2%
NO	Electrochemical	0-1000,5000 PPB/PPM	1 PPB/PPM	± 2%
NOX	Electrochemical	0-5000 PPB/ PPM	1 PPB/PPM	± 2%
NO2	Electrochemical	0-1000,5000 PPB/PPM	1 PPB/PPM	± 2%
SOX	Electrochemical	0-5000 PPB/ PPM	1 PPB/PPM	± 2%
HC	Catalytic	0-100% LEL	1%	± 2%
	TCD/NDIR	or 0-5% V/V	0.1%	± 2%
	Solid State/NDIR	0-10000 PPM	1 PPM	± 2%
Excess Air (A)	Calculated	0-100 %	0.1%	± 2%
Temp. Air (Ambient)	PT 100	0-99°C	1°C	± .5%
Temp. Gas	Tc K	0-1000°C	1°C	± 0.5%
Temp. Differential	Tc K	0-1000°C	1°C	± 0.5%
Combustion Efficiency	Calculated	0-99.9%	0.1%	
Smoke Index	Paper Filter Method	0-9 Bachrach Scale	0.1%	

Note : Specifications and Features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. Due to Applied's commitment to research, design and product improvement, specifications are subject to change without notice.

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