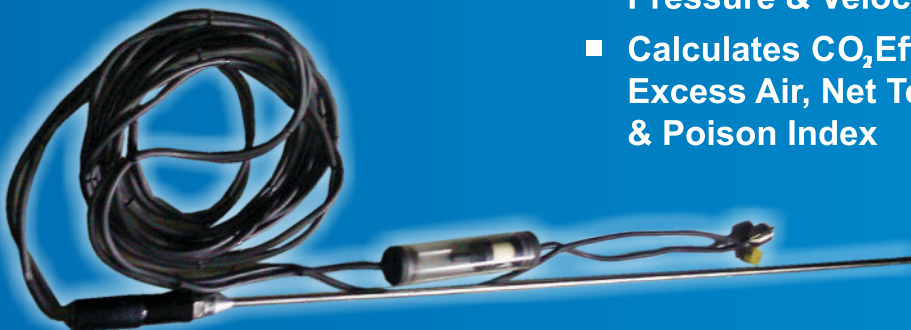


## Portable Flue Gas Analyzer MODEL - 230PV

Combination of Technologies for  
Gas Concentration  
Measurement



- Analyzer that covers all process application
- Measures O<sub>2</sub>, CO, SO<sub>x</sub>, NO<sub>x</sub>, Stack Temperature, Pressure & Velocity
- Calculates CO<sub>2</sub> Efficiency, Losses, Excess Air, Net Temperature, CO / CO<sub>2</sub> Ratio & Poison Index



## Portable Flue Gas Analyzer Model - 230PV

### Technical Specification

PARAMETER	RESOLUTION	ACCURACY	RANGE
Flue Temperature with probe	0.1°C	±2.0°C	0 - 1200°C / 32 - 2200 °F with suitable probe
Inlet Temperature	0.1°C	±0.1°C	0 - 50°C / 32 - 122 °F
Pressure	0.1 mbar	±2.% of full scale	+150 mbar to -150 mbar
Velocity	0.1 m/s	±2.% of full scale	0 - 50 m/s
GAS MEASUREMENT - ELECTROCHEMICAL			
Oxygen	0.1%	±0.2%	0 - 21%
Carbon Monoxide (Standard)	1 ppm	±20 ppm<500 ppm, ±5%>500 ppm,	0 -10000 ppm
Nitric Oxide (Standard)	1 ppm	±5 ppm<100 ppm, ±5%>100 ppm	0 - 5000 ppm
Sulphur Dioxide	1 ppm	±5 ppm<100 ppm, ±5% >100 ppm	0 - 5000 ppm
GAS MEASUREMENT - INFRARED ( IR )			
Total Hydrocarbon	0.1%	±3%	0 -1%, 0 - 5%, 0 - 100%
CALCULATIONS			
Carbon Dioxide	0.1%	±0.3% reading	0 - 20%
Efficiency	0.1%	±1.0% reading	0 - 120%
Losses	0.1%	±1.0% reading	0 - 99.99%
Excess air	0.1%	±0.2%	0 - 2885.0%
Temp (Net) Standard	1.00 C/F	±2°C	0 - 600°C / 32-1112 ° F
CO/CO <sub>2</sub> Ratio	0.0001	±0.0001	0 - 0.9999
Poison Index	0.01%	0.01%	0 - 99.99%

### Unit Specification

- Ambient Temperature : 0-50°C
- Humidity : 0-95 % rh
- Repeatability : ± 1% of reading
- Power Supply : 80-230 VAC, 50 Hz, Adaptor
- Area Classification : General Purpose

### Other parameters measured

- Pressure
- Velocity
- Flow rate

## Portable Flue Gas Analyzer Model - 230PV

### Total Solution for Boiler Efficiency Analysis Combined with Emission Monitoring

- Efficiency
- Losses
- Excess Air
- Poison Index
- Net Temperature
- Stack temperature
- Ambient temperature
- Derived CO<sub>2</sub>& NO<sub>x</sub>
- Pressure
- Velocity
- Flow rate

Also calculates relative concentration of all Gas Emissions with respect to Reference O<sub>2</sub>

### Programmable units of measured gas concentration

- Gas concentrations can be displayed either in ppm or mg/m<sup>3</sup>
- Gas concentrations can be displayed either in ppb or µg/m<sup>3</sup> on request

### Data Management

- Can store up to 160 sets of data
- Data logger function for the analog inputs
- Can choose up to 15 parameters in a data set
- Auto store and averaging option for all gas concentration
- Powerful Windows Software for Analyzer Data Communication
- All measured values, stored values or displayed can be printed on the internal or external printer

### Hardware Capabilities

- 32-bit Cortex-M3 ARM Processor
- Rechargeable Lithium Ion Battery
- Suction Pump with 400 mbar w.r.t. absolute
- Printer Interface
- Borosilicate Filter with 0.1 micron porosity
- Gas probe with thermocouple and condensate trap
- RS-232 interface and multi functional PC program

### Optional Accessories

- Choice of soft carrying case or hard housing
- For longer sampling duration : Mini Peltier gas dryer with peristaltic pump
- For velocity measurement : Pitot tube

## Portable Flue Gas Analyzer Model - 230PV

### Sampling Probes

- For SO<sub>x</sub>/ NO<sub>x</sub> measurement : Heated probe with heated hose
- Inconel probe for up to 1200° C
- Silicon Carbide probe for up to 1600° C
- Alumina probe for up to 1600° C
- Customized probe length contact office

### Additional Capabilities

- Automatic zeroing when the analyzer is switched ON
- All parameters programmable
- 18 common fuels with 2 extra programmable fuels

### Advantages

- Low cost of ownership, maintenance and installation
- Ensured after sales & service support
- Spares and accessories availability guaranteed for years
- Combination of technologies and integration under one roof

5.7"QVGA TFT Touch Screen Display

