



# 712 Flue Gas Analyzer

## New! Five Tools in One!!

The TPI 712 is an all in one instrument designed to maximize diagnostic efficiency and accuracy.

Ask about the optional A740 Infrared Printer.



4.0" w x 8.12" h x 2.25" d

## Five Tools in One!

### 1. Combustion Efficiency Analyzer

- Measure O<sub>2</sub> and CO
- Calculate CO<sub>2</sub>, efficiency, excess air and ratio.
- Will work with high efficiency furnaces, hot water heaters, and other combustible gas appliances.

### 2. Combustible Gas Detector

- Set at 100 ppm sensitivity for natural gas

### 3. CO Analyzer

- Measure 0-10,000 ppm CO

### 4. Differential Thermometer

- Dual input K-Type thermocouple temperature tester

### 5. Differential Digital Manometer

- Dual input differential manometer with 3 selectable units of measure: kPa, mBar, inH<sub>2</sub>O



Turn over for technical information and accessory part numbers.

**NOTE:** When selecting oil as fuel be sure to use the optional oil filter or reading could become erratic. Order item A773.

The Value Leader™

### 712 FEATURES

- Easy to use
- Large, easy-to-read display
- Data log up to ten sets; timed logging 400 sets
- PC interface
- IR printer port
- Protective rubber boot included

### 712 ACCESSORIES

CO Sensor, Oxygen Sensor, Protective Boot, Stack Probe, PVC Tubing, Water/filter trap on Stack Probe, Shoulder Strap Carrying Case, Spare Particle Filters, AC/DC Adapter, Rechargeable Batteries

### 712 OPTIONAL ACCESSORIES

**A740** IR Printer

**A767** IRDA Adapter for Data Logging

**A773** Sulfur Filter

## A740 Infrared Printer

- Easy to use
- Battery operated
- Self test facility
- Adjustable contrast
- Manual paper feed
- Maximum transmitting distance 16"(45cm)
- Compatible with most other combustion analyzers



3.0" w  
x 6.0 h  
x 1.75" d



# 712 Flue Gas Analyzer

## TECHNICAL SPECIFICATIONS AND ACCESSORIES

### Temperature Measurement

Range	-40° to 1472°, or -40° to 800°C
Resolution	1°F or C
Accuracy (K-type)	±0.3%, ±2°F or ±1°C

### Draft/Pressure Measurement

Selectable Ranges	mBar, kPa, and inH <sub>2</sub> O
Ranges	-150 mBar to +150 mBar -15 kPa to +15 kPa -60 inH <sub>2</sub> O to +60 in H <sub>2</sub> O
Resolution	0.01mBar
Accuracy	±0/5% fsd

### Gross/Net Efficiency

Range	0 to 100%
Resolution	0.1%

### Oxygen (O<sub>2</sub>) Measurement

Range	0 to 25%
Resolution	0.1%
Accuracy	±0.3%

### Carbon Monoxide (CO) Measurement

Range	0 to 10,000 ppm
Resolution	1 ppm
Accuracy	±5 ppm or 5%, whichever is greater

### Carbon Dioxide (CO<sub>2</sub>)

Range	0 to 25%
Resolution	0.1%
Accuracy	Calculated

### CO/CO<sub>2</sub> Ratio

Range	0 to 0.999
Resolution	0.001
Accuracy	Calculated

### Instrument Specifications

Operating Temperature Range	14° to 122°F (-10° to 50°C)
Battery	Rechargeable Ni-MH, >6 Hour Life
Charger Input Voltage	115V or 230V : 50/60 Hz AC
Fuels	Natural Gas, LPG, Light Oil, Heavy Oil
Display	Backlit LCD
Data Storage	10 sets of readings
Data Logging	400 sets of readings on 'Timed Interval Logging'
Time & Date	24 Hour Real Time Clock
Dimensions	200mm x 90mm x 60mm
Weight	500g
Exhaust	Safety Spigot
Conforms To:	BS7927 (and the draft BS7967)

### ACCESSORIES

#### Standard

Flue Probe w/K-type	A770
K-Type Temperature Probe	GK11M
In-Line Filter Complete	A762
Mini Pump Protection Filter Assembly	A763
Battery Charger	A766
Protective Boot	A765
Soft Carrying Case	A768
Exhaust Spigot	A764
(2) Static Tips	A776

#### Optional

Infrared Printer	A740
PC Software	A772
IRDA-RS232C Adapter	A767
20 Foot Flue Gas Analyzer Probe	A770-20
Replacement Printer Paper (10 rolls)	A746
Oil Filter	A773

**NOTE: When selecting oil as fuel be sure to use the optional oil filter or reading could become erratic. Order item A773.**

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To learn about the entire line of TPI products visit:

[www.tpi-thevalueleader.com](http://www.tpi-thevalueleader.com)

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