



# 714 Flue Gas Analyzer with NOX

**New!  
Five  
Tools in  
One!!**

The TPI 714 is an all in one instrument designed to maximize diagnostic efficiency and accuracy.

**Ask about  
the optional  
A740  
Infrared  
Printer.**

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™**



4.0" w x 8.12" h x 2.25" d

## 714 Five Instruments in One

### 1. Combustion Efficiency Analyzer

- Measure O<sub>2</sub>, CO, and NO
- Calculate CO<sub>2</sub>, NOX, efficiency, excess and air ratio
- Will work with high efficiency furnaces, hot water heaters, and other combustible gas appliances.

### 2. NO & NOX Analyzer

- Measure 0 ~ 5,000ppm NO
- Calculate 0 ~ 5, 250ppm NOX

### 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



## 714 FEATURES

- Easy to use
- Large, easy-to-read display
- Print real-time or stores readings Save 10 sets of data
- 12V car power adapter
- IR printer port
- Protective rubber boot included

## 714 ACCESSORIES

CO Sensor, Oxygen Sensor, NO Sensor  
Protective Boot, Stack Probe, PVC Tubing,  
Water/filter trap on Stack Probe, Shoulder  
Strap Carrying Case, Spare Particle Filters,  
Rechargeable Batteries

## 714 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





# 714 CO & NOX ANALYZER

## TECHNICAL SPECIFICATIONS AND ACCESSORIES

- Digital Multimeters
- Clamp Meters
- Hand-held Oscilloscopes
- Refrigerant & Combustible Gas Leak Detectors
- Temperature Testers
- BNC Coax Cable Connectors
- Test Leads
- Accessories

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<b>Temperature Measurement</b>	
Range	-50° to 1000°F, or -45° to 540°C
Resolution	1°F or C
Accuracy (K-type)	±0.3%, ±2°F or ±1°C
<b>Draft/Pressure Measurement</b>	
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
<b>Nitric Oxide Measurement</b>	
Range	0 to 5,000ppm
Resolution	1ppm
Accuracy	<100ppm: ±5ppm <1000ppm ±5% >1000ppm: ±10ppm
<b>NOX Measurement</b>	
Range	0 to 5, 250
Resolution	1ppm
Accuracy	Calculated
<b>Gross/Net Efficiency</b>	
Range	0 to 100%
Resolution	0.1%
Accuracy	Calculated
<b>Oxygen (O<sub>2</sub>) Measurement</b>	
Range	0 to 25%
Resolution	0.1%
Accuracy	±0.3%
<b>Carbon Monoxide (CO) Measurement</b>	
Range	0 to 10,000 ppm
Resolution	1 ppm
Accuracy	<100 ppm CO: ±5 ppm >100 ppm CO: ±5% of reading
<b>Carbon Dioxide (CO<sub>2</sub>)</b>	
Range	0 to 25%
Resolution	0.1%
Accuracy	Calculated
<b>CO/CO<sub>2</sub> Ratio</b>	
Range	0 to 0.999
Resolution	0.001
Accuracy	Calculated

<b>Instrument Specifications</b>	
Operating Temperature Range	14° to 122°F (-10° to 50°C)
Battery	4AA Batteries
Fuels	Natural Gas, LPG, Light Oil, Heavy Oil
Display	Backlit LCD
Data Storage	10 sets of readings
Time & Date	24 Hour Real Time Clock
Dimensions	200mm x 90mm x 60mm
Weight	500g
Switch Off	Failsafe
Exhaust	Safety Spigot
Conforms To:	BS7927 (and the draft BS7967)

<b>ACCESSORIES</b>	
<b>Standard</b>	
Flue Probe w/K-type	A742
K-Type Temperature Probe	GK11M
In-Line Filter Complete	A762
Mini Pump Protection Filter Assembly	A763
Rubber Boot	A765
Soft Carrying Case	A768
Exhaust Spigot	A764
(2) Static Tips	A776

<b>Optional</b>	
20 Foot Flue Gas Analyzer Probe	A770-20
Infrared Printer	A740

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To learn about the entire line of TPI products visit:

**www.tpi-thevalueleader.com**

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