



# 709R Combustion Analyzer

## Features

**QUICK AND SIMPLE SET UP** All TPI analyzers feature quick and simple set up. Fast purge and the ability to perform fuel selection during start up enable tests to be performed quickly without requiring extra set-up time after initial start-up. TPI analyzers also use the last selected fuel as the default setting. This feature prevents the need to perform fuel selection every time the analyzer is turned on.

- Built-in differential manometer with 0.001" H<sub>2</sub>O resolution
- Calculates combustion efficiency
- Pump driven for fast response
- Will not shut off if 15 ppm CO is present for increased safety
- Optional A740 IR printer available for hard copies of test results
- Built-in differential thermometer
- Store function to save up to 50 readings
- Push on fittings for fast and easy use
- Large easy to read backlit display
- Ten selectable fuels

## 709 Contents

**709 Combustion Analyzer**



**A787 Soft Carrying Case**



**A763 Mini pump protection filter**



**GK11M K-type thermocouple**



**A774 Silicone Tubing**



**A770 Flue Probe**



## Specifications

### Instrument

Operating Temperature Range	14°F to +122°F (-10°C to +50°C)
Battery / Battery Life	Rechargeable Ni-MH / > 6 Hours
Charger Input Voltage	115V or 230V : 50/60 Hz AC
Fuels	Natural Gas, LPG, Light Oil, Heavy Oil, Bituminous Coal, Anthracite Coal, Coke, Butane, Wood, Bagasse
Units of Pressure	mbar, kPa & inH <sub>2</sub> O
Display	3 Line Backlit LCD w/ annunciators
Data Storage	50 sets of readings
Time & Date	24 Hour Real Time Clock
Dimensions	7.8" x 3.5" x 2.4"
Weight	1.1lbs

### Gases

	Range	Resolution	Accuracy
Oxygen	0-25%	0.1%	+/- 0.3%
Carbon Monoxide	0-10,000 ppm	1 ppm	+/- 5 ppm or 5%
Carbon Dioxide	0-25%	0.1%	Calculated
CO/CO <sub>2</sub> Ratio	0-0.999	0.001	Calculated
Combustion Eff.	0-100%	0.1%	Calculated

### Pressure Measurement

Selectable Ranges	mbar, kPa and inH <sub>2</sub> O
Range	-120 inH <sub>2</sub> O to 120 inH <sub>2</sub> O
Resolution	0.001 inH <sub>2</sub> O
Accuracy	+/- 0.5% fsd

### Temperature Measurement

Input Type	K-Type thermocouple
Range	-58°F to 1832°F (-50°C to 1000°C)
Resolution	1°F (1°C)
Accuracy	+/- (0.3% of rdg + 2°F) or +/- (0.3% of rdg + 1°C)