



# 714

## Combustion Analyzer with NO / NOx

### 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" H2O resolution
- Measure NO (Nitric Oxide), Calculate NOx
- Calculates combustion efficiency
- Data Logging with time and date stamp
- Will not shut off if 15 ppm CO is present for increased safety
- Communicate to a PC via the optional A767 IR interface
- Optional A740 IR printer available for hard copies of test results
- Built-in differential thermometer
- Store function to save up to 50 readings
- Pump driven for fast response
- Push on fittings for fast and easy use
- Large easy to read backlit display
- Ten selectable fuels

### 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 & inH2O
Display	3 Line Backlit LCD w/ annunciators
Data Storage	50 sets of readings
Data Logging	400 sets of readings
Single Logging	150 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%
Nitric Oxide	0-5,000ppm	1 ppm +/- 5 ppm to 5%
Carbon Dioxide	0-25%	0.1% Calculated
NOX	0-5250ppm	1 ppm Calculated
CO/CO2 Ratio	0-0.999	0.001 Calculated
Combustion Eff.	0-100%	0.1% Calculated

#### Pressure Measurement

Selectable Ranges	mbar, kPa and inH2O
Range	-120 inH2O to 120 inH2O
Resolution	0.001 inH2O
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)

### 714 Contents

714 Combustion Analyzer



A787 Soft Carrying Case



A603 Brass Hose Barb Fitting (2)



A774 Silicone Tubing



A763 Mini pump protection filter



A776 Static Tip (2)



A770 Flue Probe



A791 Adapter tubing



GK11M K-type thermocouple



A611 Gas Valve Pressure Adapter

