

# 709 Combustion Analyzer

## Test the TPI Advantage



### 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 startup. 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



### Specifications

#### Instrument

|                             |                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------|
| Operating Temperature Range | 14°F to +122°F (-10°C to +50°C)                                                                       |
| Battery / Battery Life      | AA (3) / > 6 Hours                                                                                    |
| 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

| 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) |

**A787** Soft Carrying Case



**A770** Flue Probe



**GK11M** K-type thermocouple



**A763** Mini pump protection filter



**A774** Silicone Tubing

