



# 717 Combustion Analyzer with smart sensors

## Field Replaceable O<sub>2</sub> & CO Sensors



The 717 has a built-in magnet for hands free use

### 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 100 readings
- Push on fittings for fast and easy use
- Large easy to read backlit display
- 11 selectable fuels



### Temperature Measurement

Input Type  
Range  
Resolution  
Accuracy

### Instrument

Operating Temperature Range

Battery / Battery Life

Fuels

Units of Pressure

Display

Data Storage

Time & Date

Dimensions

Weight

### Pressure Measurement

Selectable Ranges

Range

Resolution

Accuracy

### Specifications

14°F to +122°F (-10°C to +50°C)

AA (3) / > 6 Hours

Natural Gas, LPG, Light Oil, Heavy Oil, Bituminous Coal, Anthracite Coal, Coke, Butane, Wood, Wood Pellet, Bagasse

mbar, kPa & inH<sub>2</sub>O

3 Line Backlit LCD w/ annunciators

100 sets of readings (10 sets for CO room test)

24 Hour Real Time Clock

7.8" x 3.5" x 2.4"

1.1lbs

mbar, kPa and inH<sub>2</sub>O

-120 inH<sub>2</sub>O to 120 inH<sub>2</sub>O

0.001 inH<sub>2</sub>O

+/- 0.5% fsd

K-Type thermocouple

-58°F to 1832°F (-50°C to 1000°C)

1°F (1°C)

+/- (0.3% of rdg + 2°F) or +/- (0.3% of rdg + 1°C)

### A787 Soft Carrying Case



### A770 Flue Probe



### A774 Silicone Tubing



### A763 Mini pump protection filter



### GK11M K-type thermocouple



TPI 717 makes field sensor replacement simple. Pre-calibrated oxygen and carbon monoxide smart sensors enable users to perform sensor replacement without having to perform calibration. Simply remove the old sensor, install the new sensor, and wait 24 hours for sensor stabilization. Once the 717 is turned on calibration data is automatically transferred to the analyzer.

### A760S Smart CO Sensor

Pre-calibrated smart CO sensor



### A761S Smart O<sub>2</sub> Sensor

Pre-calibrated smart O<sub>2</sub> sensor



Smart sensor access panel removes with the turn of a screw and provides ample working room for sensor replacement.



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Gas and Pressure Inlet Ports

Thermocouple Sockets

Exhaust Port

Infrared Window

## Up Arrow Key:

Saves the ratio readings, scrolls through selectable fuels, Toggles between gross and net efficiency, toggles between °C and °F, Scrolls between pressure readings mbar, kPa, and inH<sub>2</sub>O

## Print

Print real data or data stored to a location.

## Function/Backlight Key:

Scrolls through Temperature, Pressure & Leak Turns backlight On and Off

## Scroll/Enter Key:

Scrolls through the five pages of combustion analysis information, Toggles between differential calculation On and Off, Toggles T2 temperature On and Off

## Down Arrow Key:

Zeros pressure reading

## Store

Stores Data to a location.

## Recall:

Recalls stored data on the LCD

## On/Off Key:

Turns instrument On and Off

