



716 Combustion Analyzer

716
Data Sheet
06.12

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" H₂O resolution
- 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 USB interface
- Optional A740 IR printer available for hard copies of test results
- Built-in differential thermometer
- Store function to save up to 10 readings
- Pump driven for fast response
- Push on fittings for fast and easy use
- Large easy to read backlit display
- Ten selectable fuels



Instrument

Operating Temperature Range
Battery / Battery Life
Charger Input Voltage
Fuels

Units of Pressure
Display
Data Storage
Data Logging
Single Logging
Time & Date
Dimensions
Weight

Specifications

14°F to +122°F (-10°C to +50°C)
Rechargeable Ni-MH / > 6 Hours
115V or 230V : 50/60 Hz AC
Natural Gas, LPG, Light Oil, Heavy Oil, Bituminous Coal, Anthracite Coal, Coke, Butane, Wood, Bagasse
mbar, kPa & inH₂O
8 line graphical LCD Backlit
100 sets of readings
400 sets of readings
150 sets of readings
24 Hour Real Time Clock
7.8" x 3.5" x 2.4"
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 ₂ Ratio	0-0.999	0.001	Calculated
Combustion Eff.	0-100%	0.1%	Calculated
Gas Leak Sensor 100-10,000ppm (calibrated to methane)			
* Bluetooth module optional			

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)

A787 Soft Carrying Case



A770 Flue Probe



GK11M K-type thermocouple A774 Silicone Tubing



A776 Static Tip (2)



A603 Brass Hose Barb Fitting (2)



A611 Gas Valve Pressure Adapter



A806 Combustible Gas Leak Probe



A791 Adapter tubing





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Using TPI analyzers to determine combustion efficiency at the time of equipment set up minimizes call backs. Analyzers can be used to verify to the home owner the value of service work by showing the increase in equipment efficiency after work is performed. Efficiency calculations can also be used to generate business by demonstrating the need to improve the efficiency of equipment or to show the benefit of purchasing new equipment with higher efficiency.

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.

**Gas and Pressure
Inlet Ports**

**Charger Socket
and USB Port**

**Thermocouple
Sockets**

Infrared Window

Exhaust Port

Blue Soft Keys:
The function of these keys is shown on the bottom part of the display and changes depending on the menu selected.

Up Arrow Key:
Scrolls up and increases values in menus.

Down Arrow Key:
Scrolls down and decreases values in menus.

Home:
Returns the analyzer to the main menu.

On/Off Key:
Turns instrument On and Off

Back Key:
Returns the analyzer to a previous menu level.

200mm x 90mm x 60mm

All combustion analyzers come with A787 soft padded carrying case



TPI 716	
Flue gas	
18.01.2012	06 19
Natural gas	
CO	0 ppm
CO ₂ (%)	11.8 %
Ratio	-----
Effi(n)	----- %
O ₂	0.0 %
XAir	0 %
NO	0 ppm
NOx	0 ppm
Start	

