716NHC Combustion Analyzer

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

- 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 USB interface

- Optional A740 IR printer available for hard copies of test results

- Built-in differential thermometer

- Store function to save up to 100 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	32°F to 122°F (0°C to 50°C)
Battery / Batery 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, psi, inH2O, mH2O, kPa, hPa, inHg, mmHg, mmH2O
Display	8 line graphical LCD Backlit
Data Storage	100 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% (100,000ppm) CO	1 ppm/0.001%	<100ppm : +/- 5 ppm >100ppm : +/-5%
Nitric Oxide	0-5,000ppm	1 ppm	<100 ppm : +/- 5 ppm <1000 ppm : +/- 5 % >10000ppm : +/-10%
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

Gas Leak Sensor 100-10,000ppm (calibrated to methane)

Pressure Measurement

Selectable Ranges	mbar, psi, inH2O, mH2O, kPa, hPa, inHg, mmHg, mmH2O
Range	-40 inH2O to 40 inH2O
Resolution	0.001 inH2O
Accuracy	<2inH2O : +/- 0.02 inH2O >2inH2O : +/- 1% rdg

Temperature Measurement

Input Type	K-Type thermocouple
Range	-58°F to 2372°F (-50°C to 1300°C)
Resolution	1°F (1°C)
Accuracy	+/-0.3% fsd

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Gas and Pressure Inlet Ports

Charger Socket and USB Port

Thermocouple Sockets

- Pump has twice the capacity of the 709 pump
- Combustible leak probe (100 ppm) to check gas fittings
- Easy to tune appliances by viewing all at once: O2, Excess air, CO, CO2, temperature, pressure, efficiency and pump flow

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Exhaust Port

Infrared Window

tpi 716

Flue gas		
30.10.2013		02 11
Natural gas		
CO	0	ppm
CO2(c)	0.0	%
Ratio	-------	
Effi(n)	-------	%
O2	20.9	%
XAir	-------	%
Prsu	0.24	mbar
Pump	0	cc/min
	Start	

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.

BACK

Home:
Returns the analyzer to the main menu.

HOME

On/Off Key:
Turns instrument On and Off

Flue Gas Analyser

200mm x 90mm x 60mm

All kits come with A768 soft shoulder strap carrying case

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

STANDARD ACCESSORIES	PART #
Rubber Boot	A765
Soft Carrying Case	A768
Flue Sampling Probe	A770
In-Line Filter / Water Trap installed on Flue probe	A796
Disc water filter installed in water trap	A794W
Spare In-Line Filter	A762F
Temperature Probe	GK11M
Battery Charger	A766
Mini Pump Protection Filter Assembly	A763
Exhaust Spigot Removable	A764
Pressure Tubing	A774
Static Pressure Tips	A776
1/4" barbed to 1/8" NPT fitting	A603
Gas Valve Adapter	A611
Adapter Tubing	A791

OPTIONAL ACCESSORIES	PART #
PC Software and USB Cable	A807
Hard Carrying Case	A917