



TPI 709R Combustion Analyser

Use with optional A740 Printer!

NEW



6 Year Limited* Warranty

NEW Improved 3 Year Life O2 Sensor

The TPI 709R Combustion Analyser Performs:

1) Combustion Analysis

- Check Net/Gross Efficiency
- Adjust CO, CO₂ & Ratio Values
- Check CO₂ & O₂ Values on Appliance

2) Differential Pressure

- Adjust Gas/Air Mixture
- Test Air Pressure Switch
- Use for Tightness Testing

3) Differential Temperature

- Flow & Return Adjustments
- Balance Radiators
- Check Thermostat & Water Temperatures

4) CO Detection

- Highlights CO Spillage
- Indicates areas of High CO Production

* Warranty Subject to Annual Servicing by TPI Europe Ltd.

Improved Features

NEW!! 3 Year O₂ & CO Sensors.

Longer Life O₂ Sensor means only 1 major service during a 6 year period from new. Saving time and money.

Water Trap & Disc Filter as standard on the thermocouple gas sampling probe. Complete protection from water ingress into 709R.

In-line Pump Protection Filter as standard. Stopping dust/dirt ingress into pump (the main cause of pump/analyser failure)

TPI offers a complete line of...

Handheld Oscilloscopes

Digital Multimeters

Digital Clamp-On Meters

Carbon Monoxide Analysers

Combustion Efficiency Analysers

Combustible Gas Detectors

Digital Manometers

Refrigerant Leak Detectors

Temperature Instruments

Electrical Testers

Humidity Testers

Airflow Testers

Service & Calibration

Accessories

The Value Leader™



TPI 709R Combustion Analyser

TECHNICAL
SPECIFICATIONS
AND
OPTIONAL
ACCESSORIES

NOTE:
When selecting
OIL as a fuel be
sure to use the
optional (A773)
oil filter or
readings could
become erratic

Carbon Monoxide (CO) Measurement

Range	0 to 10,000 ppm
Resolution	1 ppm
Accuracy	±5 ppm or 5%, whichever is greater

Oxygen (O₂) Measurement

Range	0 to 25%
Resolution	0.1%
Accuracy	±0.3%

Carbon Dioxide (CO₂)

Range	0 to 25%
Resolution	0.1%
Accuracy	Calculated

Ratio (CO/CO₂)

Range	0 to 0.999
Resolution	0.001
Accuracy	Calculated

Gross/Net Efficiency

Range	0 to 100%
Resolution	0.1%

Temperature Measurement

Range	-40° to 800° C (-40° to 1472° F)
Resolution	1°C or F
Accuracy (K-type)	±0.3%, ±1°C or ±2°F

Draft/Pressure Measurement

Selectable Ranges	mBar, kPa, and inH ₂ O
Ranges	-150 mBar to +150 mBar -15 kPa to +15 kPa -60 inH ₂ O to +60 in H ₂ O
Resolution	0.01mBar
Accuracy	±0/5% fsd

Instrument Specifications

Operating Temperature Range	-10° to 50°C (14° to 122°F)
Battery	Rechargeable Ni-MH, >6 Hour Life
Charger Input Voltage	115V or 230V : 50/60 Hz AC
Fuels	Natural Gas, LPG, Light Oil, Heavy Oil
	OPT 1 = Bituminous Coal
	OPT 2 = Anthracite Coal
	OPT 3 = Coke
	OPT 4 = Butane
	OPT 5 = Wood (Dry)
	OPT 6 = Bagasse
Display	Backlit LCD
Data Storage	50 sets of readings
Time & Date	24 Hour Real Time Clock
Dimensions	200mm x 90mm x 60mm
Weight	500g
Exhaust	Safety Spigot
Conforms To:	BS7927 (and the draft BS7967)

Standard Accessories

Flue Temperature Probe	A770
'K'-Type Temperature Air Probe	GK11M
In-Line Water Trap Bowl Filter Complete	A794
Mini Pump Protection Filter Assembly	A763
Battery Charger	A766
Protective Boot	A765
Soft Carrying Case	A768
Exhaust Spigot	A764

Optional Accessories:-

A773 - Oil Filter



A788 - Smoke Test Pump



CK21M - Temperature Pipe Clamps



A746 - 10 Spare Paper Rolls for IR Printer
Plus Various 'K' Type Thermocouple Probe

**A740
Infra Red Printer**



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To learn about the entire line of TPI products visit:
www.tpieurope.com