



TPI 712 "5-in-1" Combustion Analyser

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™



NEW
Improved
3 Year Life
O2 Sensor

Use with
optional
A740
Printer!

6
Year
Limited*
Warranty

The TPI 712 "5-in-1" Flue Gas Analyser Allows:

1) Combustion Analysis

- ❖ Check Net/Gross Efficiency
- ❖ Adjust CO, CO₂ & Ratio Values
- ❖ Check CO₂, O₂ Values in Flues

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 & Logging

- ❖ Records Levels for BS7967
- ❖ Highlights CO Spillage
- ❖ Indicates areas of High CO Production in Fires, Ovens etc..

5) Combustible Gas Detector

- ❖ Check Tightness of Valve & Pipe connections
- ❖ Audible & Visual Alarms change with concentration levels
- ❖ Starts working at 30ppm

Why choose the TPI 712?

The "5-in-1" TPI 712 is the professional's choice for flue gas analysis and is available in a number of kit formats to meet all requirements. The feature packed TPI 712 has all the measurements required by the modern heating engineer to commission and service domestic & industrial heating systems.

Features include:

- Six Year Warranty*
- Least Expensive Published Service Costs
- 10,000 ppm CO Cell for longer life and reliability
- Various Kit Options Available including IR Printer & Pipe Clamps
- Remote Diagnostics to reduce unnecessary instrument return
- CO Build Up Test Software
- Tightness Test Software
- Robust Design complete with Protective Rubber Boot as Standard
- Free Software Upgrades During Annual Service
- Conforms to BS7927 (and the draft BS7967)
- Either IRDA or Bluetooth® Data Transfer to PC

* 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)



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TECHNICAL SPECIFICATIONS AND 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 = Anthrachite Coal
	OPT 3 = Coke
	OPT 4 = Butane
	OPT 5 = Wood (Dry)
	OPT 6 = Bagasse
Display	Backlit LCD
Data Storage	50 sets of readings
Data Logging	400 sets of readings on 'Timed Interval Logging'
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 

A767 - IRDA to RS232 Adaptor for PC 

A772 - PC Software

A746 - 10 Spare Paper Rolls for IR Printer

Plus Various 'K' Type Thermocouple Probe



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