



**Visit TPI, The Value Leader™ at:
www.tpi-thevalueleader.com**

Test Products International, Inc.
Headquarters:
9615 SW Allen Blvd.
Beaverton, OR 97005 USA
503-520-9197 • Fax: 503-520-1225
e-mail: info@tpi-thevalueleader.com

Test Products International, Ltd.
342 Bronte St. South Unit #9
Milton, Ontario L9T 5B7 Canada
905-693-8558 • Fax: 905-693-0888
e-mail: info@tpicanada.com

Test Products International UK Ltd.
Longley House, East Park
Crawley, West Sussex RH10 6AP England
Tel: +44 (0)1293 561212
Fax: +44 (0)1293 813465
e-mail: info@tpi-uk.com

16



**Visit TPI, The Value Leader™ at:
www.tpi-thevalueleader.com**

Test Products International, Inc.
Headquarters:
9615 SW Allen Blvd.
Beaverton, OR 97005 USA
503-520-9197 • Fax: 503-520-1225
e-mail: info@tpi-thevalueleader.com

Test Products International, Ltd.
342 Bronte St. South Unit #9
Milton, Ontario L9T 5B7 Canada
905-693-8558 • Fax: 905-693-0888
e-mail: info@tpicanada.com

Test Products International UK Ltd.
Longley House, East Park
Crawley, West Sussex RH10 6AP England
Tel: +44 (0)1293 561212
Fax: +44 (0)1293 813465
e-mail: info@tpi-uk.com

16

775

Combination Carbon Monoxide/Combustible
Gas Detector



775

Combination Carbon Monoxide/Combustible
Gas Detector



Contents

- General Specifications
- Sensor Specifications
- Front View
- Back View
- Standard Accessories
- Optional Accessories
- General Description
- Turning On
- Operating Instructions
 - o General
 - o Combustion Gas Leak Detection
 - LCD & LED Mode
 - Tracker Mode
 - o Carbon Monoxide Detection
- Trouble Shooting Guide
- Guarantee

Guarantee

Your 775 is guaranteed free from defects in materials and workmanship for 3 Years from the date of purchase. The Carbon Monoxide sensor is only guaranteed for 2 years.

Covered : - Repair parts and labour; or replacement of the product at the option of your supplier. Normal transportation charges to the purchaser are also covered.

Not covered : - Damage to the product which are the result of abuse, improper use or maintenance are not covered. Any other expenses, consequential damages, incidental expenses including damages to property are not covered. Transportation expenses to the customer are not covered.

To obtain warranty performance: - Include with the product your name, address, phone number, written description of the problem and proof of purchase date. Carefully package and return to your supplier.

This guarantee does not affect your statutory rights.

Contents

- General Specifications
- Sensor Specifications
- Front View
- Back View
- Standard Accessories
- Optional Accessories
- General Description
- Turning On
- Operating Instructions
 - o General
 - o Combustion Gas Leak Detection
 - LCD & LED Mode
 - Tracker Mode
 - o Carbon Monoxide Detection
- Trouble Shooting Guide
- Guarantee

Guarantee

Your 775 is guaranteed free from defects in materials and workmanship for 3 Years from the date of purchase. The Carbon Monoxide sensor is only guaranteed for 2 years.

Covered : - Repair parts and labour; or replacement of the product at the option of your supplier. Normal transportation charges to the purchaser are also covered.

Not covered : - Damage to the product which are the result of abuse, improper use or maintenance are not covered. Any other expenses, consequential damages, incidental expenses including damages to property are not covered. Transportation expenses to the customer are not covered.

To obtain warranty performance: - Include with the product your name, address, phone number, written description of the problem and proof of purchase date. Carefully package and return to your supplier.

This guarantee does not affect your statutory rights.

Trouble Shooting Guide

Problem	Probable Cause	Possible Remedy
Instrument won't turn on	Flat batteries	Check and replace batteries
'SEnS Err' displayed on Screen	Faulty Combustible Gas Sensor	Combustible Gas Sensor needs replacing
CO error is displayed	Faulty CO sensor	Return Instrument to supplier

General Specifications

Dimensions	240mm X 74mm X 55mm	
Goose Neck Length	16''	
Battery	1.5V Alkaline battery C size X 2	
Power Consumption	About 400mW in typical use.	
Sensor Life	CO Sensor	Months until 80% original signal (24 month warranted)
Pressure Range	80 ~ 120kPa	
Alarms	Visual/Audible	
Response Time	CO	90% of reading in 30 seconds
	Leak	Instantaneous
Operating Temperature	0°C ~ 50°C	

Sensor Specifications

Type	Resolution	Range	Accuracy
Leak	<50ppm	0~50,000ppm	±10%
CO	1ppm	0~2000ppm	±5ppm or 5% whichever is greater

14

3

Trouble Shooting Guide

Problem	Probable Cause	Possible Remedy
Instrument won't turn on	Flat batteries	Check and replace batteries
'SEnS Err' displayed on Screen	Faulty Combustible Gas Sensor	Combustible Gas Sensor needs replacing
CO error is displayed	Faulty CO sensor	Return Instrument to supplier

General Specifications

Dimensions	240mm X 74mm X 55mm	
Goose Neck Length	16''	
Battery	1.5V Alkaline battery C size X 2	
Power Consumption	About 400mW in typical use.	
Sensor Life	CO Sensor	Months until 80% original signal (24 month warranted)
Pressure Range	80 ~ 120kPa	
Alarms	Visual/Audible	
Response Time	CO	90% of reading in 30 seconds
	Leak	Instantaneous
Operating Temperature	0°C ~ 50°C	

Sensor Specifications

Type	Resolution	Range	Accuracy
Leak	<50ppm	0~50,000ppm	±10%
CO	1ppm	0~2000ppm	±5ppm or 5% whichever is greater

14

3

Front View



****Factory use only****

Press ON/MENU button to return to Normal Operating Mode.

Back View



Front View



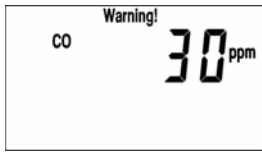
****Factory use only****

Press ON/MENU button to return to Normal Operating Mode.

Back View



Alarm Warning Level



Displays the current value that the personal audible and visual alarm is set at. Alarm is factory set at 30ppm CO.

The Alarm level can be adjusted by pressing the Y/▲/ZERO and N/▼/backlight buttons.

Audible Alarm



Displays whether the Audible Alarm is switched on or off.

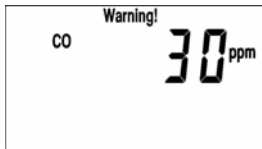
The Audible alarm can be toggled on and off by pressing the Y/▲/ZERO and N/▼/backlight buttons.

NOTE- even though the audible alarm is switched off the visual alarm (RED LED will flash and 'Warning' on the LCD) will remain on.

12

5

Alarm Warning Level



Displays the current value that the personal audible and visual alarm is set at. Alarm is factory set at 30ppm CO.

The Alarm level can be adjusted by pressing the Y/▲/ZERO and N/▼/backlight buttons.

Audible Alarm



Displays whether the Audible Alarm is switched on or off.

The Audible alarm can be toggled on and off by pressing the Y/▲/ZERO and N/▼/backlight buttons.

NOTE- even though the audible alarm is switched off the visual alarm (RED LED will flash and 'Warning' on the LCD) will remain on.

12

Standard Accessories

Instruction Manual
Soft Pouch

Optional Accessories

Earphones

General Description

The 775 is a state-of-the-art Carbon Monoxide and Combustible Gas Leak detector. It is the first of its kind to combine both detection technologies into one easy to use hand-held affordable instrument.

Standard Accessories

Instruction Manual
Soft Pouch

Optional Accessories

Earphones

General Description

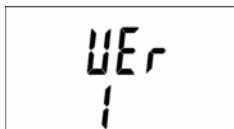
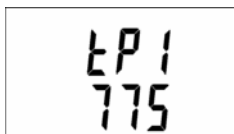
The 775 is a state-of-the-art Carbon Monoxide and Combustible Gas Leak detector. It is the first of its kind to combine both detection technologies into one easy to use hand-held affordable instrument.

5

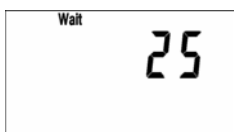
Turning On.

Press the On/Menu button and the instrument will start its set up procedure as follows:-

NOTE-Should the battery life indicator LED change to RED and the 'bat' symbol be displayed then batteries are flat and need replacing.



Software Version



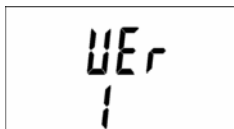
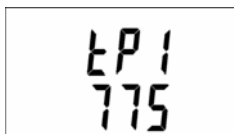
CO and Combustible Gas initialisation period.
25 second countdown.

6

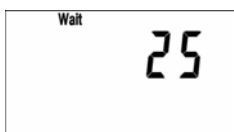
Turning On.

Press the On/Menu button and the instrument will start its set up procedure as follows:-

NOTE-Should the battery life indicator LED change to RED and the 'bat' symbol be displayed then batteries are flat and need replacing.



Software Version



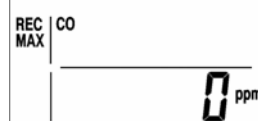
CO and Combustible Gas initialisation period.
25 second countdown.

6

Carbon Monoxide Detection

The following information can be accessed for the purpose of ambient Carbon Monoxide monitoring by pressing the ON/MENU button. Each press of the ON/MENU button will move you onto the next screen as follows:

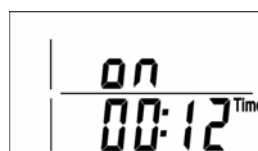
Record Maximum Readings



Displays the maximum recorded Carbon Monoxide value since switch on.

The recorded Maximum CO level can be zeroed by pressing the Y/▲/ZERO button for 5 seconds.

Elapsed Time



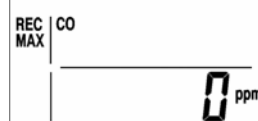
Displays, in Hours and Minutes, the elapsed time since switch on.

11

Carbon Monoxide Detection

The following information can be accessed for the purpose of ambient Carbon Monoxide monitoring by pressing the ON/MENU button. Each press of the ON/MENU button will move you onto the next screen as follows:

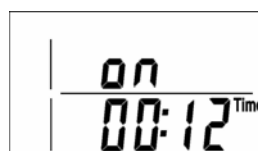
Record Maximum Readings



Displays the maximum recorded Carbon Monoxide value since switch on.

The recorded Maximum CO level can be zeroed by pressing the Y/▲/ZERO button for 5 seconds.

Elapsed Time



Displays, in Hours and Minutes, the elapsed time since switch on.

11

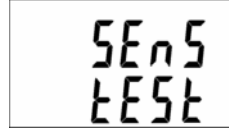
Tracker Mode

The 775 can also be used to Track/Trace a combustible gas leak by using the following method:-

1. Adjust the TICK ADJUST by moving the thumb wheel in an anti-clockwise direction until a uniform ticking sound is heard.
2. Approach the suspected leak area with the combustible leak sensor until the tick begins to increase. When the tick increases DO NOT move the sensor from the area but re-adjust the TICK ADJUST by moving the thumb wheel back in a clockwise direction till the slower uniform ticking sound is heard again.
3. Repeat step 2 until leak is found.
4. If the tick stops, the concentration level has decreased. Move back in the opposite direction to find the leak again.

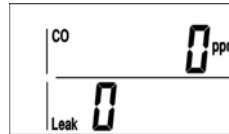


Automatically Zeroes sensors to the air/environment you are in.
NOTE- Always turn instrument on in clean air



Automatically tests the Combustible Gas leak sensor

The instrument is now ready for use and the following screen will be displayed:-



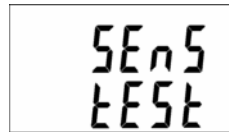
Tracker Mode

The 775 can also be used to Track/Trace a combustible gas leak by using the following method:-

1. Adjust the TICK ADJUST by moving the thumb wheel in an anti-clockwise direction until a uniform ticking sound is heard.
2. Approach the suspected leak area with the combustible leak sensor until the tick begins to increase. When the tick increases DO NOT move the sensor from the area but re-adjust the TICK ADJUST by moving the thumb wheel back in a clockwise direction till the slower uniform ticking sound is heard again.
3. Repeat step 2 until leak is found.
4. If the tick stops, the concentration level has decreased. Move back in the opposite direction to find the leak again.

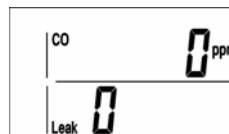


Automatically Zeroes sensors to the air/environment you are in.
NOTE- Always turn instrument on in clean air



Automatically tests the Combustible Gas leak sensor

The instrument is now ready for use and the following screen will be displayed:-



NOTE-Should an error occur at any point of the set up procedure please refer to the trouble shooting guide for assistance.

Operating Instructions

General

The backlight can be toggled on and off by pressing the N/▼/ backlight button.

Although the instrument performs an automatic zero during the start up procedure a manual zero can be performed by pressing and holding down the Y/▲/ZERO button until the following screen is displayed:-



NOTE-Manual Re-Zero should only be performed in a clean air environment.

To turn the instrument OFF press and hold down the ON/MENU button till the instrument beeps.

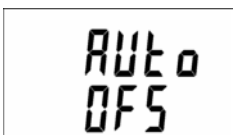
NOTE-Should an error occur at any point of the set up procedure please refer to the trouble shooting guide for assistance.

Operating Instructions

General

The backlight can be toggled on and off by pressing the N/▼/ backlight button.

Although the instrument performs an automatic zero during the start up procedure a manual zero can be performed by pressing and holding down the Y/▲/ZERO button until the following screen is displayed:-



NOTE-Manual Re-Zero should only be performed in a clean air environment.

To turn the instrument OFF press and hold down the ON/MENU button till the instrument beeps.

Combustible Gas Leak Detection

LCD & LED Indication Mode

The presence of Combustible Gas will be shown as follows:-

Amount of Gas Present	LCD Level Indicator	Indicator LEDs Lit	
		Green	Red
<100ppm	0	None	None
>100ppm <500ppm	1	1	None
>500ppm <1000ppm	2	1+2	None
>1000ppm <1500ppm	3	1,2+3	None
>1500ppm <2000ppm	4	1,2,3+4	None
>2000ppm <2500ppm	5	2,3+4	1
>2500ppm <3000ppm	6	3+4	1+2
>3000ppm <4500ppm	7	4	1,2+3
>4500ppm	8	None	1,2,3+4

An audible tone can be heard by turning the thumb wheel until it clicks to the on position.

Combustible Gas Leak Detection

LCD & LED Indication Mode

The presence of Combustible Gas will be shown as follows:-

Amount of Gas Present	LCD Level Indicator	Indicator LEDs Lit	
		Green	Red
<100ppm	0	None	None
>100ppm <500ppm	1	1	None
>500ppm <1000ppm	2	1+2	None
>1000ppm <1500ppm	3	1,2+3	None
>1500ppm <2000ppm	4	1,2,3+4	None
>2000ppm <2500ppm	5	2,3+4	1
>2500ppm <3000ppm	6	3+4	1+2
>3000ppm <4500ppm	7	4	1,2+3
>4500ppm	8	None	1,2,3+4

An audible tone can be heard by turning the thumb wheel until it clicks to the on position.