

3M™ Multi-Gas Detector 740 Series



- 1 Power/Select Button**
Used for turning the 3M 740 detector ON and OFF, accessing download menu, silencing alarms and warnings, and responding “YES” to questions.
- 2 Test Button**
Used for accessing the sensor test menu and “up” arrow when changing settings.
- 3 Peaks/No Button**
Used for accessing Peak menu and “down” arrow when changing settings and responding “NO” to questions.
- 4 Power Jack**
Uses universal 110-240 VAC power supply or 12 Volt Vehicle Wiring Kit.
- 5 LCD Readout**
Easy to read digital display.
- 6 IR Window**
Quickly transfers data logging information.
- 7 95 dBA Buzzer**
Loud audible warning for noisy environments.

- 8 Highly Visible Red LEDs**
Brilliant red light for visual warnings.
- 9 Sensor Opening Filters**
Aids against moisture and dust intrusion.
- 10 Belt Fastener and Loop**
Holds secure to clothing when worn on job sites. Loop can be used to lower unit into confined spaces.



Gas Sensor Specifications

Sensor	Factory Default Alarm Level	Display Range	Reading Resolution	Factory Default STEL Alarm Level	Factory Default TWA Alarm Level	Operating Temperature Range
Carbon Monoxide	35 ppm	0 – 1500 ppm	1 ppm	200 ppm	35 ppm	-4 to 122 °F (-20 to 50 °C)
Hydrogen Sulfide	10 ppm	0 – 200 ppm	1 ppm	15 ppm	10 ppm	-4 to 122 °F (-20 to 50 °C)
Combustible Gases*	10% LEL	0 – 100% LEL 0-5% v/v methane	1% LEL	Not Applicable	Not Applicable	-4 to 122 °F (-20 to 50 °C)
Oxygen	19.5% (Low) 23.0% (High)	0 – 25%	0.1%	Not Applicable	Not Applicable	-4 to 122 °F (-20 to 50 °C)

* Factory calibrated to methane.

Standard Features and Accessories

SPECIFICATIONS	
Display	LCD with designated line for each sensor reading
Battery	3M Standard – rechargeable Li-ion; Optional – 3M recommended Alkaline (AAA batteries)
Operating Time	Up to 18 hours
Readings	Peaks, STEL, TWA, Instantaneous Gas Levels
Dimensions	4.8" x 2.7" x 1.4" (122 mm x 69 mm x 36 mm)
Sensors	Combustible % LEL (catalytic bead); O ₂ , CO, and H ₂ S (electrochemical)
Weight	10.4 ounces (292 g)
Alarms/Indicators	Dual red LED, audible 95 dBA @ 1 ft., tactile vibrator

SPECIFICATIONS	
Operating Temperature	-4 °F to 122 °F (-20 °C to 50 °C)
Operating Humidity	15-90% non-condensing
Hazardous Area Rating	Intrinsically safe – Class 1, Division 1, Groups A, B, C, and D; T3 C22.2; CSA approval
Data Logging Memory	1.2 MB (6 months of data at 1 minute intervals per 40 hours/week)
Ingress Protection	IP65
Radio Frequency Protection	<10% deviation of alarm level when subjected to 450 mHz, 5 watt radio at 2 feet
Warranty	2 years on sensors and hardware

3M™ Multi-Gas Detector 740 Series (1-4 gases)

MODEL NUMBER	
740-100-400	740 4-gas detector with H ₂ S, OX, CO, EX (calibrated to Methane); alligator clip, rechargeable Li-ion battery, universal power supply (100-240 VAC), cal gas hood and tubing, comprehensive manual, data manager software CD.
740-100-300	740 3-gas detector with OX, CO, EX (calibrated to Methane); alligator clip, rechargeable Li-ion battery, universal power supply (100-240 VAC), cal gas hood and tubing, comprehensive manual, data manager software CD.
740-100-350	740 3-gas detector with OX, H ₂ S, EX (calibrated to Methane); alligator clip, rechargeable Li-ion battery, universal power supply (100-240 VAC), cal gas hood and tubing, comprehensive manual, data manager software CD.
740-100-200	740 2-gas detector with OX, EX (calibrated to Methane); alligator clip, rechargeable Li-ion battery, universal power supply (100-240 VAC), cal gas hood and tubing, comprehensive manual, data manager software CD.
740-100-100	740 1-gas detector with EX (calibrated to Methane); alligator clip, rechargeable Li-ion battery, universal power supply (100-240 VAC), cal gas hood and tubing, comprehensive manual, data manager software CD.
740-100-001	740 Gas Detector with alligator clip, rechargeable Li-ion battery, universal power supply (100-240 VAC), cal gas hood and tubing, comprehensive manual, data manager software CD. (sensor pack purchased separately)
931-100-400	740 4-gas sensor pack with H ₂ S, OX, CO, EX (calibrated to Methane)
931-100-300	740 3-gas sensor pack CO, OX, EX (calibrated to Methane)
931-100-350	740 3-gas sensor pack with H ₂ S, OX, EX (calibrated to Methane)
931-100-200	740 2-gas sensor pack with OX, EX (calibrated to Methane)
931-100-100	740 1-gas sensor pack with EX (calibrated to Methane)
457-594-000	Cigarette adapter charger
930-030-001	Hand aspirator assembly
671-034-002	Infrared PC Adapter (USB)
671-034-000	Infrared PC Adapter (Serial)

▲ WARNING

This instrument helps monitor for the presence and concentration level of certain specified airborne gases. Misuse may produce an inaccurate reading which means that higher levels of the gas being monitored may be present and could result in overexposure and cause sickness or death. For instruments with an oxygen sensor installed, misuse may produce an inaccurate reading where lower or higher levels of oxygen may be present and cause sickness or death.

Each person using this equipment must read and understand the information in the *User Instructions* before use. Use of this equipment by untrained or unqualified persons, or use that is not in accordance with the *User Instructions*, may adversely affect product performance and result in sickness or death. For proper use, see supervisor or *User Instructions*, or call 3M OH&ESD Technical Service in the U.S.A. at 1-800-243-4630. In Canada, call at 1-800-267-4414.



Occupational Health & Environmental Safety Division

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