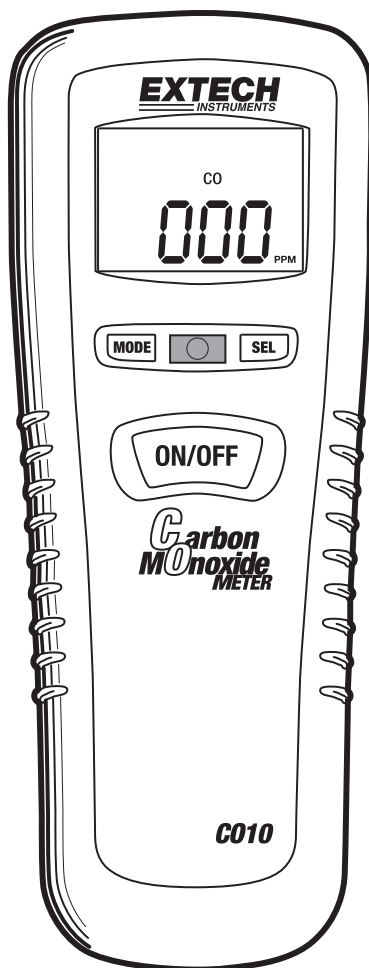


Carbon Monoxide Meter

Model CO10



Introduction

Congratulations on your purchase of the Extech C010 Carbon Monoxide Meter. The CO10 measures and displays CO concentrations between 0 and 1000 parts per million (ppm).

Safety Information



Carbon monoxide is life threatening even at relatively low concentrations; learn and recognize the effects of CO poisoning (see Table below). Do not use this meter as a personal safety monitoring device.

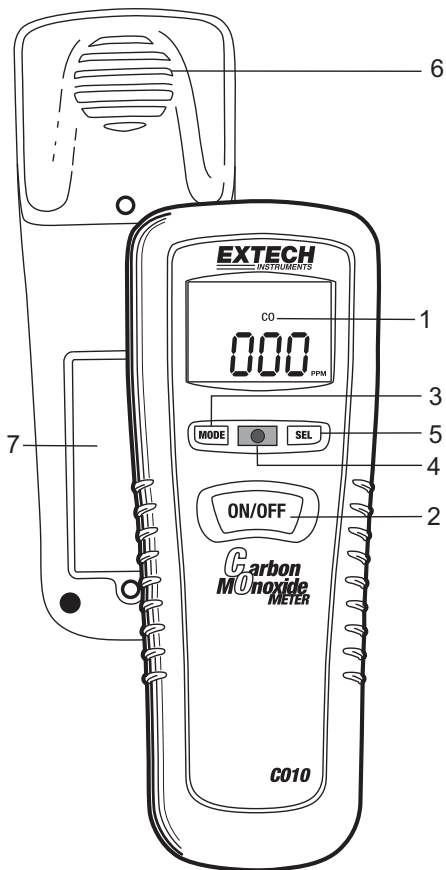
Effects of CO poisoning

0-1 PPM	Normal background levels
9 PPM	Maximum indoor air quality level
50 PPM	Maximum 8 hour average exposure level
200 PPM	Mild headache, fatigue, nausea and dizziness
400 PPM	Frontal headache, life threatening after 3 hours
800 PPM	Dizziness, nausea, convulsions, DEATH WITHIN 2 TO 3 HOURS
1600 PPM	Nausea within 20 minutes, DEATH WITHIN 1 HOUR
12800 PPM	DEATH WITHIN 2 TO 3 MINUTES

Ensure that the meter is turned on in an area free of CO. If not, the meter will read incorrectly when subsequently measuring CO.

Meter Description

1. LCD display
2. Power ON/OFF key
3. MODE key
4. Power on/Alarm light
5. SEL key
6. Sensor
7. Battery compartment

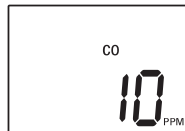


Operation

MEASUREMENTS

IMPORTANT: Ensure that the meter is turned on in an area free of CO. If not, the meter will read incorrectly when subsequently measuring CO.

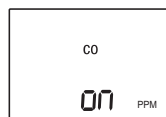
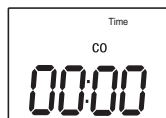
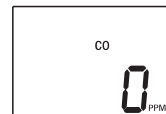
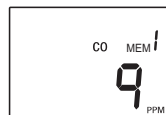
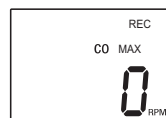
1. Press the ON/OFF button to turn the meter on. Allow time for the meter to perform the self test and for the display to settle.
2. To use the meter, trace the CO10 around the area of the suspected leak.
3. The meter will indicate the presence of CO (in ppm) on the LCD display. An audible beep will sound at 35 ppm alerting the user that the threshold of dangerous CO levels has been detected. The higher the concentration of CO, the faster the beeper will sound. Above 200PPM the beeper will sound continuously.
4. To turn the meter off, press the ON/OFF key. If the meter is left on, the meter will automatically power off after 15 minutes.



MODE Button Functions

Press the MODE button to step through the following functions.

1. **Maximum Data Mode:** Displays the highest reading taken. This reading is cleared when the meter is powered off.
2. **Recall Data Mode:** Press the **SEL** button to step through and recall the data from the 10 memory locations. The current memory location (0-9) is displayed in the top right.
3. **Store Data Mode:** In this mode, you can store the reading to the next available memory location by pressing the SEL button. "REC" is displayed in the top right.
4. **Recall Alarm Mode:** The meter will display the alarm level data setting —"30ppm".
Zero Mode: Press the **SEL** button for over 8 seconds to enter the manual zero adjusting mode. The zero value will blink and then the display will 0 and the meter will return to the Measure Mode.
5. **Measuring Time Mode/Auto Power Off disable:** This mode will display how long the meter has been on taking measurements. The time is cleared when the meter is powered off. The auto power off function is disabled in this mode. In all other modes, auto power off is enabled and will power off after 15 minutes of inactivity.
6. **Audible Alarm Enable/Disable:** The audible alarm can be turned on/off by pressing the **SEL** button. "on" or "off" will be displayed on the LCD. The alarm light will remain enabled in either setting.



Backlight: In the measure mode press and hold the **SEL** button for 4 seconds to turn the backlight on/off. Press the MODE button to enter maximum data mode.

Specifications

Measurement range	0-1000 ppm
Resolution	1 ppm
Accuracy	±5% or ±10 ppm (whichever is greater)
Sensor Type	Stabilized electrochemical Gas-specific (CO)
Sensor Life (Typical)	3 years
Warm-up Period	<2 seconds
Power supply	9V Battery (NEDA 1604 or IEC6F22)
Battery life	Approx. 50 hours with alkaline battery
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-22 to 140°F (-30 to 60°C)
Operating Humidity	0 to 99% RH (non condensing)
Dimensions	6.3 x 2.2 x 1.57" (160 x 56 x 40mm)
Weight	6.35oz (180g)

Warranty

FLIR Systems, Inc. warrants this Extech Instruments brand device to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies to sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department for authorization. Visit the website www.extech.com for contact information. A Return Authorization (RA) number must be issued before any product is returned. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. FLIR Systems, Inc. specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. FLIR's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Calibration, Repair, and Customer Care Services

FLIR Systems, Inc. offers repair and calibration services for the Extech Instruments products we sell. We offer NIST traceable calibration for most of our products. Contact our Customer Service Department for information on calibration service availability. Annual calibrations should be performed to verify meter performance and accuracy. Technical support and general customer service is also provided, refer to the contact information provided below.

Support Lines: U.S. (877) 239-8324; International: +1 (603) 324-7800

Technical Support: Option 3; E-mail: support@extech.com

Repair & Returns: Option 4; E-mail: repair@extech.com

Product specifications are subject to change without notice

Please visit our website for the most up-to-date information

www.extech.com

FLIR Commercial Systems, Inc., 9 Townsend West, Nashua, NH 03063 USA

ISO 9001 Certified

Copyright © 2013-2017 FLIR Systems, Inc.

All rights reserved including the right of reproduction in whole or in part in any form

www.extech.com

Garantie

FLIR Systems, Inc. garantit que cet appareil Extech Instruments est exempt de défauts matériaux et de fabrication pendant un an à partir de la date d'envoi (une garantie limitée de six mois s'applique aux capteurs et aux câbles). Si le renvoi de l'appareil pour réparation devient nécessaire durant ou après la période de garantie, contactez le service client pour autorisation. Pour obtenir les coordonnées, visitez le site Web suivant : www.extech.com. Un numéro d'autorisation de retour (AR) doit être délivré avant tout retour de produit. L'expéditeur prend à sa charge les frais d'expédition, le fret, l'assurance et l'emballage correct de l'appareil afin de prévenir toute détérioration durant le transport. Cette garantie ne s'applique pas aux dommages imputables à l'utilisateur, tels que l'usage impropre ou abusif, un mauvais câblage, une utilisation non conforme aux spécifications, un entretien ou une réparation incorrecte, ou toute modification non autorisée. FLIR Systems, Inc. déclinera spécifiquement toute garantie ou qualité marchande ou aptitude à l'emploi prévu, et ne sera en aucun cas tenu responsable pour tout dommage conséquent, direct, indirect ou accidentel. La responsabilité totale de FLIR est limitée à la réparation ou au remplacement du produit. La garantie définie ci-dessus est inclusive et aucune autre garantie, écrite ou orale, n'est exprimée ou implicite.

Calibrage, réparation et services après-vente

FLIR Systems, Inc. offre des services de calibrage et de réparation pour les produits Extech Instruments que nous commercialisons. Nous offrons l'étalonnage traçable NIST pour la plupart de nos produits. Contactez notre service clientèle pour obtenir des informations sur la disponibilité des services d'étalonnage. Un calibrage doit être effectué chaque année pour vérifier les performances et la précision du mètre. Nous offrons également une assistance technique et un service à la clientèle. Veuillez vous reporter aux coordonnées fournies ci-dessous.

Lignes d'assistance: États-Unis (877) 239-8324; international: +1 (603) 324-7800

Service d'assistance technique : Option 3 ; E-mail : support@extech.com

Réparations et retours : Option 4 ; E-mail : repair@extech.com

Les spécifications produit sont sujettes à modifications sans préavis.

Pour les toutes dernières informations, veuillez visiter notre site Web.

www.extech.com

FLIR Commercial Systems, Inc., 9 Townsend West, Nashua, NH 03063 USA

Certifié ISO 9001

Copyright © 2013-2017 FLIR Systems, Inc.

Tous droits réservés, y compris la reproduction partielle ou totale sous quelque forme que ce soit.

www.extech.com

Garantía

FLIR Systems, Inc., garantiza este dispositivo marca Extech Instruments para estar libre de defectos en partes o mano de obra durante un año a partir de la fecha de embarque (se aplica una garantía limitada de seis meses para cables y sensores). Si fuera necesario regresar el instrumento para servicio durante o después del periodo de garantía, llame al Departamento de Servicio al Cliente para obtener autorización. Visite www.extech.com para Información de contacto. Se debe expedir un número de Autorización de Devolución (AD) antes de regresar cualquier producto. El remitente es responsable de los gastos de embarque, flete, seguro y empaque apropiado para prevenir daños en tránsito. Esta garantía no se aplica a defectos resultantes de las acciones del usuario como el mal uso, alambrado equivocado, operación fuera de las especificaciones, mantenimiento o reparación inadecuada o modificación no autorizada. FLIR Systems, Inc., rechaza específicamente cualesquier garantías implícitas o factibilidad de comercialización o idoneidad para cualquier propósito determinado y no será responsable por cualesquier daños directos, indirectos, incidentales o consecuentes. La responsabilidad total de FLIR está limitada a la reparación o reemplazo del producto. La garantía precedente es inclusiva y no hay otra garantía ya sea escrita u oral, expresa o implícita.

Servicios de calibración, reparación y atención a clientes

FLIR Systems, Inc., ofrece servicios de reparación y calibración para los productos que vendemos de Extech Instruments. Ofrecemos calibración rastreable a NIST para la mayoría de nuestros productos, para información sobre la disponibilidad del servicio de calibración por favor llame a nuestro Departamento de Servicio al Cliente.

Para verificar el funcionamiento y precisión se debe realizar la calibración anual. Además se provee Soporte Técnico y servicios generales al cliente, consulte la información de contacto en seguida.

Líneas de soporte: EE.UU. (877) 239-8324; Internacional: +1 (603) 324-7800

Soporte Técnico Opción 3; correo electrónico: support@extech.com

Reparación / Devoluciones: Opción 4; correo electrónico: repair@extech.com

Las especificaciones del producto están sujetas a cambios sin aviso

Por favor visite nuestra página en Internet para la información más actualizada

www.extech.com

FLIR Commercial Systems, Inc., 9 Townsend West, Nashua, NH 03063 USA

Certificado ISO 9001

Copyright © 2013-2017 FLIR Systems, Inc.

Reservados todos los derechos, incluyendo el derecho de reproducción total o parcial en cualquier medio

www.extech.com