

Thank you very much for your patronage and choosing our products. Before you use this product please read this manual carefully as it will familiarize you with the correct operating procedure of our product.

### ⚠ NOTICE:

- Please read this manual carefully before using this instrument;
- Please make sure you are turning on the meter under a "clean air" environment away from the test place, and wait for the preheating countdown to complete;
- Please make sure the sensor cover is fastened securely;
- Do not place the meter or the sensor at or near the heat sources.

## PRODUCT FEATURES

- High and low sensitivity;
- With flashlight on the detection probe;
- Buzzer and indicator light alarm ;
- Auto power off and cancel auto power off;
- Low battery indication and battery charging indication;
- Analog bar scale indication;
- %LEL or PPM unit;
- Ambient temperature.

SCAN THE QR CODE

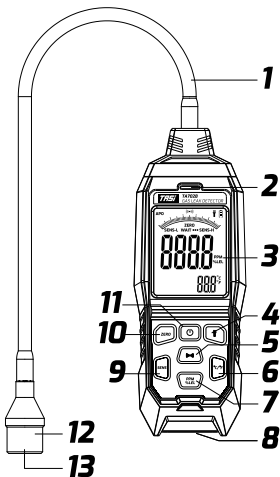
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Software & User Manual

USER MANUAL

▶ TUTORIAL VIDEO ON HOW TO USE

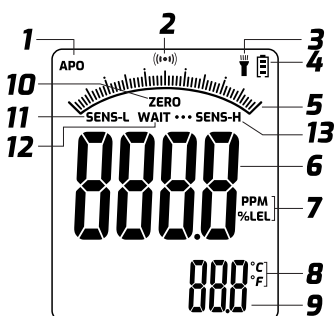
📞 Need more help? CONTACT US. <https://cd50.net/398/>

## PANEL INSTRUCTION



- 1 Gooseneck
- 2 Alarm indicator
- 3 LCD screen
- 4 Flashlight button
- 5 Sound and Light alarm button
- 6 Temp. units switching
- 7 Gas units switching
- 8 USB charging interface
- 9 Alarm sensitivity selection
- 10 Auto zero
- 11 Power button
- 12 Semiconductor sensor
- 13 Flashlight

## DISPLAY



- 1 Auto power off
- 2 Alarm symbol
- 3 Light symbol
- 4 Battery level indication
- 5 Analog bar
- 6 Combustible value
- 7 Gas unit
- 8 Temperature unit
- 9 Temperature value
- 10 Auto zero
- 11 Low sensitivity
- 12 Power on waiting
- 13 High sensitivity

## SPECIFICATION

Range	%LEL : 0 ~ 20% , PPM : 0 ~ 9999PPM
Resolution	%LEL: 0 ~ 20.0%(0.1) , PPM: 0 ~ 999PPM(0.1)1000 ~ 9999PPM(1)
Accuracy	±10%F.S.(CH4)
Display	Analog bar and value
Sensitivity	50PPM (CH4)
Alarm mode	Display, sound & light alarm
Auto zero	Auto-zero during warm-up process (in clean air)
Sensor	Semiconductor sensor
Ambient range	0 ~ 60°C
temp accuracy	±2°C
Auto power off	10 mins (can be disabled)
Detectable gas	Acetone, acetylene, alcohol, ammonia, benzene, butane, ethanol, oxirane, gasoline, hexane, hydrogen, methane, naphtha, natural gas, paint thinner, propane, solvent and etc.
Working environment	-10 ~50°C, max 80%RH, indoor altitude <2000m
Storage environment	-10~50°C , max 70%RH ,
Product size	192 x 70 x 35mm (gooseneck not included)
Screen size	53 x 44mm
Gooseneck length	Approx. 20cm
Weight	Approx. 275g (Battery included)
Power	3.7V /1000mAH LI-ION
USB charging	USB micro interface (DC 5V/1A)

## BUTTON FUNCTION DESCRIPTION

⏻: Long press to turn on, tap to turn off.

🔔: Alarm setting: Press to activate or deactivate the sound alarm and indicator light function.

🔦: Flashlight: Press to turn on or off.

°C/°F: Temperature unit, tap to switch between °C and °F

ZERO: Auto zero

SENS: Sensitivity selection: Press to choose between low sensitivity and high sensitivity

PPM  
%LEL: Gas concentration units: Press to switch between PPM or %LEL units.

## ALARM CONCENTRATION SELECTION

**SENS-H:** Emits a slow alarm sound when the concentration of combustible gas in the environment exceeds 1000 PPM, and switches to a rapid alarm sound when it surpasses 3500 PPM.

**SENS-L:** Emits a rapid alarm sound when the concentration of combustible gas in the environment exceeds 3500 PPM.

## MEASUREMENT METHOD

⚠ Please make sure you are turning on the meter under a "clean air" environment away from the test place, and wait for the preheating countdown to complete to avoid detection errors.

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## AUTO POWER OFF AND CANCEL AUTO POWER OFF

- The auto power-off function is enabled by default, and the **APO** symbol appears on the screen when turning on the meter. It will only activate the automatic power-off mode if not in use for 15 minutes.
- To turn off the auto power-off feature, press and hold both the **SENS** and ⏻ before starting the device until the 'APO OFF' icon shows on the screen, then release the buttons. Once canceled, the **APO** symbol won't appear. The auto power-off function will resume when you restart the meter.

## BATTERY CHARGING

(Note: Battery replacement needs to be returned to the factory)

- The battery level shows empty when battery less than 3.4V, indicating that the battery needs to charge;
- Charging by DC 5V / 1A power adapter (built-in 3.7V / 1000mAh lithium battery, model: 523450-1000mAh);
- Power interface is MICRO USB IN.

## MAINTENANCE

- Do not measure for a long time under high temperature and high humidity environment;
- Regular calibrated is needed to maintain the accuracy of the device;
- If your device does not work properly, and the repair requirements was confirmed by the manufacturer or dealer. The user should provide a text failure description and packing list, and the packaging. should be well cushioned and protected.

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## OPERATION PROCEDURES

- Long press ⏻ to turn on the meter; The device initiates a 30-second preheating countdown, and you'll see 'WAIT....' flashing. The meter beeps when it's ready, and then it's ready for detection.
- Locate the source of the leak and move along the pipeline to be detected (or other target objects).
- An alarm sound will be triggered if the concentration of the leakage exceeds the set alarm value (alarm function must be enabled).
- Alarm selection: Press **SENS** button to choose between high and low alarm sensitivity.
- Mute: Press 🔔 to turn on or turn off the alarm sound and indicator light ;
- Press 🔦 to turn on and turn off the light on the sensor.

## COMMON FLAMMABLE GAS AND LOWER EXPLOSION LIMIT TABLE

Name	Formula	Lower explosion limit (volume%)
Methane	CH <sub>4</sub>	5.0%
Butane	C <sub>4</sub> H <sub>10</sub>	1.8%
Heptane	C <sub>7</sub> H <sub>16</sub>	1.1%
Acetylene	C <sub>2</sub> H <sub>2</sub>	2.3%
Xylene	C <sub>8</sub> H <sub>10</sub>	1.0%
Methanol	CH <sub>3</sub> OH	5.5%
Ethanoic acid	CH <sub>3</sub> COOH	4.0%
Hydrogen	H <sub>2</sub>	4.0%
Propane	C <sub>3</sub> H <sub>8</sub>	2.2%
Pentane	C <sub>5</sub> H <sub>12</sub>	1.7%
Styrene	C <sub>8</sub> H <sub>8</sub>	1.1%
Toluene	C <sub>7</sub> H <sub>8</sub>	1.2%
Acetone	C <sub>3</sub> H <sub>6</sub> O	2.5%
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	3.3%
Ethyl acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	2.0%

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