



# Handheld Four Gas Concentration Meter

## Detects Methane (CH<sub>4</sub>), Carbon Monoxide (CO), Oxygen (O<sub>2</sub>) and Hydrogen Sulfide (H<sub>2</sub>S) Levels

HHAQ-110



- ✓ Split-Screen Color LCD
- ✓ Intrinsically Safe (Low-Energy) Design
- ✓ One-Button Operation
- ✓ Auto Zero Calibration
- ✓ Adjustable High and Low Alarms
- ✓ Separate Sensor Fault and Low Battery Alarms
- ✓ Self-Test Mode
- ✓ Rugged, Anti-Slip, IP65 Housing

The HHAQ-110 simultaneously detects Methane, Carbon Monoxide, Oxygen and Hydrogen Sulfide making it the ideal device for detecting gas leaks in mines, chemical plants, refineries and construction tunnels.

The HHAQ-110 displays the current level of each gas as well as the STEL (short term exposure limit) and TWA (time weighted average). Concentration alarms are programmable in three modes (audible, visual and vibrating). The catalytic/electrochemical sensor uses natural diffusion sampling (typical sensor life 2 years).

The HHAQ-110 is powered by a rechargeable lithium-ion battery and includes the charger.

### Specifications

#### Measurement Ranges:

- CH<sub>4</sub>:** 0 to 100% LEL (Lower Explosive Limit)
- CO:** 0 to 1000 ppm
- O<sub>2</sub>:** 0 to 30% by volume
- H<sub>2</sub>S:** 0 to 100 ppm



**Measurement Accuracy:** ±2% of full-scale value  
**Response Time:** < 30 seconds to 90% of final value  
**Alert Levels:** 200 ppm STEL + 35 ppm TWA for CO, 15 ppm STEL + 10 ppm TWA for H<sub>2</sub>S  
**High, Low Alarm Ranges:**  
**CH<sub>4</sub>:** 25 to 80% LEL with 50% LEL default, 10 to 25% LEL with 20% LEL default  
**CO:** 100 to 500 ppm with 200 ppm default, 25 to 100 ppm with 35 ppm default  
**O<sub>2</sub>:** 22.5 to 24% by volume with 23.5% default, 16 to 19.5% by volume with 23.5% default  
**H<sub>2</sub>S:** 15 to 30 ppm with 15 ppm default, 5 to 15 ppm with 10 ppm defaults

**Sensor Type:** Catalytic (CH<sub>4</sub>), electrochemical (CO, O<sub>2</sub>, H<sub>2</sub>S)  
**LCD Size:** 42 mm (1 5/8") diagonal  
**Operating Life with Fully Charged Battery:** 8 hours under non-alarm conditions  
**Operating Temperature:** -20 to 50°C (4 to 122°F) @ 5 to 95% RH, non-condensing  
**Dimensions:** 116 L x 66 W x 31 mm D (4.6 x 2.6 x 1.2")  
**Weight (with Battery):** 200 g (7 oz)

To Order	
Model No.	Description
HHAQ-110	Handheld meter for Methane (CH <sub>4</sub> ), Carbon Monoxide (CO), Oxygen and Hydrogen Sulfide (H <sub>2</sub> S)

*Comes complete with HHAQ-110 meter with built-in Li-ion battery, USB/AC charger, molded case, universal heavy-duty D-Ring alligator clip, belt clip and operator's manual.*