

AMC-CD-2

Human Occupancy Detector

For organizations involved in cross border shipments, stowaways can present an increasingly costly problem. This situation has lead Armstrong Monitoring to develop the AMC-CD-2 Human Occupancy Detector. Reliable, robust, and proven technology has resulted in successful, trouble-free deployment of these highly cost-effective instruments around the world.

By monitoring for elevated CO₂ levels in shipping containers, a reliable indication of human occupancy is provided, allowing early detection of concealed personnel at the point of departure.

The AMC-CD-2 uses state-of-the- art infrared sensing technology to provide accurate, parts per million indication in a low maintenance package. The sensor uses a beam of infrared light to probe a sample of air. The amount of light absorbed is a function of the concentration of CO₂ in the sample. The process is specific to the absorption bands of CO₂, and will therefore not respond to any other gases.

An internal pump extracts an air sample through a customized probe assembly. Numerous attachments allow samples to be taken through small apertures or rubber seals in a wide variety of containers, without compromising integrity of either the container or its cargo.

Armstrong's AMC-CD-2 has been credited with saving countless lives through rescue facilitated by the rapid detection of concealed individuals. In addition to being a powerful analytical tool, the AMC-CD-2 has proven itself as a strong deterrent to incidents of human concealment in locations where the technology has been deployed.



Applications

- ☐ Container Ports
- ☐ Security Agencies
- ☐ Correctional Facilities
- ☐ Transport Security
- ☐ Law Enforcement
- ☐ Search and Rescue
- ☐ Homeland Security

Features

- ☐ Infrared Sensor Specific to CO₂
- ☐ No interferences or poisons
- ☐ Internal high grade sample pump
- ☐ Quick connect sampling hardware
- ☐ Long life rechargeable battery
- ☐ Self-resealing, kink resistant sample hose
- ☐ Assorted probe tips suited for various applications
- ☐ 2 year warranty



AMC-CD-2 Specifications

Measurement Technique: Non-dispersive Infrared (NDIR)

Range: 0-5000 PPM CO₂

Sample Rate: Approximately 500 mL/min

Battery Life: Greater than 12 hours per recharge

Warm Up Time: Less than 1 minute

Dimensions: 7cm x 14cm x 19cm

2.76" x 5.51" x 7.48"

Operating Temperature: 0°C to 50°C

32°F to 122°F

Operating Humidity: 0-95% RH (Non-Condensing)

Accuracy: ±5% of reading ± 30 ppm

Repeatability: ±1% of reading ± 20 ppm

Weight: 1.6 kg

3.5 lbs

Optional Recorder Output: 0.1-2.5 VDC



All AMC-CD-2 units include:

- AC Adapter
- Sampling Wand
- Particulate Filter
- Leather Case and Shoulder Strap
- Selection of Sampling Needles

Accessories/Parts List

AMC-CD2-06: 120 VAC/12 VDC Adapter

AMC-CD2-09: Chest Harness

AMC-CD2-10: Needle Assortment (includes 6 needles)

AMC-CD2-01: Sampling Probe Assembly

AMC-CD2-126: Particulate Filter

