BW ULTRA

HAND-HELD GAS DETECTOR

Key Features

- Monitor up 5 different gases with one unit
- Water-resistant design in an integral concussion-proof enclosure
- Large LCD allows for easy-to-read monitoring
- Integral motorized pump for remote sampling and fast response
- Rechargeable lithium polymer battery
- 95 dB alarm tone, bright LED alarm bars, & internal vibrating alarm
- Auto backlight activates in low light & when in alarm
- Four alarm levels: instantaneous Low Alarm, High Alarm, TWA, and STEL
- Records TWA, STEL, and max gas exposures (displays readings on command)
- Datalogger with programmable sampling intervals

The new full-featured Ultra 5-gas portable

The BW Ultra utilizes up to 5 sensors for monitoring and detection of a variety of gases. The sensors can be custom selected with a maximum of 5 gases per unit. This allows the ULTRA to be configured for a multitude of applications.

With preset and user adjustable alarm setpoints, dangerous gas levels are instantly made aware by audible and visual alarms, as well as vibration; ensuring that personnel are aware of potential hazards.

A standard configuration for a facility requiring both confined space and ammonia detection would be comprised of the following sensors:

O2 (Oxygen) | 0-25%
% LEL | 0-100% LEL
H2S (Hydrogen Sulfide) | 0-100 ppm
CO (Carbon Monoxide) | 0-2,000 ppm
PID set for NH3 (Ammonia) | 0-1,000 ppm

This would be the 5-Gas PID listed below under Popular Configurations.

Ordering Information

The ULTRA can be configured with up to 5 sensors to accomodate a variety of applications. Use the configurator tables to determine compatibility and configure the correct part number. For assistance and pricing, please contact CTI.

Each BW-Ultra is shipped calibrated with the following accessories: AC charger, 25' sample tubing, filter kit, quick start guide, and certificate of calibration.

Optional Accessories

BW-M5-PROBE (Sample Probe)
BW-ULTRA-CC (Carrying Case, hard shell)
BW-ID-ULTRA (Intellidock)
BW-ID-ENABL (Intellidock Enabler Kit)

Popular Configurations:

BW-ULTRA-XWHM00 (Confined Space)
BW-ULTRA-XWHMQ1 (5-Gas PID)
BW-ULTRA-XWHMA1 (5-Gas NH3)
BW-ULTRA-XWHMB1 (5-Gas CO2)

The IntelliDoX automatically tests the gas detector and sensors while transferring data to the docking station. The Enabler Kit has all of the power and tubing hardware needed. These two products are necessary for auto-calibration and transfer of the data from the Ultra. Call for more information.

Enabler Kit

IntelliDoX

CALIBRATION TECHNOLOGIES INC.
GAS DETECTION SPECIALISTS

Configurator Tables

Step 1:
Select 1st sensor

Sensor	Range	Code
None	n/a	0
O_2 Oxygen	0-25%	X

Step 2:
Select 2nd sensor

Sensor	Range	Code
None	n/a	0
% LEL, Filtered	0-100% LEL	W

Step 3:
Select 3rd sensor

Sensor	Range	Code
None	n/a	0
H_2S Hydrogen Sulfide	0-100 ppm	H
CO Carbon Monoxide	0-2000 ppm	M

Step 4:
Select 4th sensor

Sensor	Range	Code
None	n/a	0
H_2S Hydrogen Sulfide	0-100 ppm	H
CO Carbon Monoxide	0-2000 ppm	M

Step 5:
Select 5th sensor

Sensor	Range	Code
None	n/a	00
PID for **VOC's**	0-1000 ppm	Q1
IR for **%LEL**	0-5 %	W4
IR for CO_2 Carbon Dioxide	0-50000 ppm	B1
SO_2 Sulfur Dioxide	0-100 ppm	S1
NH_3 Ammonia	0-100 ppm	A1
H_2 Hydrogen	0-2000 ppm	R1
Cl_2 Chlorine	0-20 ppm	C1
NO_2 Nitrogen Dioxide	0-50 ppm	D1
HCN Hydrogen Cyanide	0-100 ppm	Z1
NO Nitrogen Monoxide	0-200 ppm	N1
CO Carbon Monoxide (H_2 Resistant)	0-1000 ppm	M2

All CTI Configurations have black housing and the part numbers begins with BW-ULTRA. Sensor selections shall be placed in sequential order using the Configurator tables.

Example order number for a typical Confined Space configuration:

BW-ULTRA-	X	W	H	M	00

SPECIFICATIONS

Due to ongoing research and product improvement, specifications are subject to change

Battery:
18 hours (14 hours with PID or IR sensor) @ -4°F

Pump Draw:
Sample from up to 75 ft

Data Logging:
45 days based on 8 hour shifts every 15 seconds logging

Calibration Due Date:
Days remaining until next calibration displayed on start-up

LCD:
Continuous, alphanumeric gas readout and status display advises

Tests:
Activated Detectors automatically perform one internal diagnositc test every 24 hours

Operating Temperature:
-4 to +131F / -20 to +50C

Humidity: 5 - 95% RH (non-condensing)

Dimensions: 5.8 x 3.3 x 1.6 in

Weight: 14.5 oz (with clip)

Alarm Indicators:
Visual alarms: Flashing alarm bars visible from all angles. LCD indicates gas present and alarm levels encountered

Audible alarm: Typically 95 dB at 1 ft. / 30 cm variable pulsed audible alarm

Vibrator alarm: Pulses warning in gas alarm conditions, or for any status alarms

Status alarms: Low battery, over range, multiple gas, pump, and failed or missing sensor

Alarm Levels:
Instantaneous Low Alarm; Instantaneous High Alarm; TWA (time-weighted average), and STEL (short-term exposure limit)

Alarm setpoints: Displayed on activation and on demand.

Gas concentration:
Simultaneously and continuously displays gas concentration(s) for all sensors (in ppm or % LEL). Peak (max)/STEL/TWA ppm or %: Records exposures and displays on demand.

Enclosure:
Rugged, composite material; two-shot molded polymer case with integral anti-shock boot. IP66/68 water resistant and dust proof.

User field options:
Adjust STEL period (5-16 minutes in 1 minute intervals), Calibration span levels, Calibration interval, Bump test interval, Select combustibe gases measurement: 0-100% LEL or Methane gas 0-5%,LEL and PID correction factors, Calibration due date (1 to 365 days, or set to zero for off), Individual sensor enabledisable, Latching alarms, Stealth mode, Languages: English, French, German, Portugese, Spanish, Simplified Chinese and Russian

Certifications:
UL: Class 1, Div 1, Group A, B, C, D
Class 1, Zone 0, Group IIC

ATEX: II 1G Ex ia IIC T4 Ga

IECEx: Ex ia IIC T4 Ga

CE: European Conformity

Warranty:
Instrument: 3 years
Sensors: 3 years (2 years NH3, 1 year PID and Cl2)
Battery: 2 years