

PERSONAL MULTI-GAS CONFINED SPACE ENTRY MONITORS

TRIPLE PLUS +

FEATURES

- SIMULTANEOUSLY MONITORS, DISPLAYS, AND ALARMS FOR ONE TO FOUR GASES USING FIELD INTERCHANGEABLE SMART SENSORS IDEAL FOR MANY APPLICATIONS
- BUILT-IN ELECTRIC AIR PUMP OPTION OR DIFFUSION STYLE
- EXTREMELY RUGGED DESIGN, VIRTUALLY UNBREAKABLE
- INTERNAL DATALOGGER WITH MEMORY BACK UP BATTERY
- WATER RESISTANT, DUST PROOF, AND HIGHLY RF SHIELDED
- MANY FEATURES YET COMPACT, LIGHTWEIGHT, AND FLOATS!
- UL, CSA AND MANY OTHER INTRINSIC SAFETY APPROVALS
- LARGE, HIGH CONTRAST DISPLAY WITH BRIGHT BACKLIGHT
- MANY SPECIAL OPTIONS AVAILABLE



Over 40,000 units of the Triple Plus + design are presently in use worldwide. Our customers have come to depend on its robust and reliable performance. The extremely durable Triax™ case and internal construction means it won't break when you drop it and floats when you need it to.



CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"

TRIPLE PLUS + SPECIFICATIONS (Part 1)

WEIGHT	1.9 pounds (880 grams)
DIMENSIONS	4.6 x 6.6 x 2.9 inches (118 x 167 x 73 mm)
TYPICAL GASES	<p> COMBUSTIBLES (%LEL and/or % Volume) OXYGEN CARBON MONOXIDE HYDROGEN SULFIDE SULFUR DIOXIDE CHLORINE NITROGEN DIOXIDE NITRIC OXIDE AMMONIA HYDROGEN HYDROGEN CHLORIDE HYDROGEN CYANIDE HYDROGEN FLUORIDE PHOSPHINE ARSINE FLUORINE ETHYLENE OXIDE CHLORINE DIOXIDE VOLATILE ORGANICS CARBON DIOXIDE – Infrared METHANE - Infrared (%LEL and % Volume) PROPANE - Infrared (%LEL and % Volume) BUTANE - Infrared (%LEL and % Volume) ETHYLENE- Infrared (%LEL and % Volume) </p> <p style="text-align: center;"><i>PLEASE CONTACT CEA INSTRUMENTS REGARDING SENSORS FOR ANY OTHER GAS(ES)</i></p>
TYPICAL RESPONSE	Combustibles 20 seconds; Oxygen 10 seconds; Toxic Gas 20 seconds
SENSOR LIFE	Combustibles 5 years; Oxygen 2 years; Typical Toxic Gas 3 years
ALARMS	Adjustable alarms set to current U.S. OSHA limits (<i>unless specified otherwise</i>). Piercing rapid intermittent, piezo-electric tone, 92 dBA at 1 foot with ultra bright flashing red LED in gas hazard. Selectable confidence blip with slow flashing green LED indicates instrument is working. Distinctive double blip and double flash of green LED indicates low battery.
DISPLAY	2 lines of 24 characters, dot matrix high contrast LCD with back light. Values and units for up to 4 gases displayed simultaneously at current, TWA, STEL, or peak levels. Low battery, pump failure, real time and elapsed time, calibration and configuration data also displayed.
DATALOGGING	Adjustable sample rate, 100 hours @ 1 minute sample rate (maximum 6000 data points per channel), logging of events, user, and site.

(Specifications subject to change without notice.)



CEA Instruments, Inc.

160 Tillman Street, Westwood, N.J. 07675 U.S.A.
 Telephone (201) 967-5660 Fax (201) 967-8450
 E-Mail: ceainstr@aol.com Website: www.ceainstr.com

TRIPLE PLUS + SPECIFICATIONS (Part 2)

BATTERY	LIBRA Lithium-Ion rechargeable battery pack lasts over 12 hours between charges for standard (non-pumped) instruments and over 10 hours for pumped instrument.
BATTERY CHARGERS	Dual rate 'drop in' stand up charger for instrument or dual rate charger / PC interface 'flat bed' for instrument and battery pack.
ELECTRIC PUMP	Optional built-in internal pump with on/off button.
TEMPERATURE	-4°F to 122°F (-20°C to 50°C).
HUMIDITY	0 to 95% RH non condensing.
APPROVALS	UL and CSA (Class 1, Div. 1, Groups A, B, C, D) and other worldwide intrinsic safety approvals.
INGRESS PROTECTION	NEMA 4X (tested to IP65) - highly water resistant and dust proof. Unit will float if accidentally dropped in water!
RF PROTECTION	RF radiation tested to EN55022 class B and meets EN50081-2. RF immunity tested to IEC801-3 and meets EN50082-2.
PC INTERFACE	PC access is achieved through an RS232 serial link by locating the instrument in the charger/PC interface. The Windows™ compatible software Portables PC is then used to adjust or set: all alarms, levels of alarm (3 for all channels, Oxygen has 2 low and 1 high), clock, password, combustible gas correction factors, time zones, user, site, and more. Log Manager controls datalogging, giving the user a choice of direct graphical output or a datafile compatible with all leading spreadsheets.
AUTOCALIBRATOR	Triple Plus can be routinely calibrated quickly and simply using Autocalibrator. The internal pump of Autocalibrator handles up to five different gases. A PC interface provides easy access with optional datalogging for proof of calibration.



(Specifications subject to change without notice.)



CEA Instruments, Inc.

160 Tillman Street, Westwood, N.J. 07675 U.S.A.
 Telephone (201) 967-5660 Fax (201) 967-8450
 E-Mail: ceainstr@aol.com Website: www.ceainstr.com