

# VX500 PhotoIonization Detector



- Utilizes field-replaceable, plug-in detectors and an interchangeable 10.6 eV lamp for easy maintenance.
- Internal constant flow pump provides continuous sampling, able to draw remote samples from up to 100 feet away.
- Single button, automated calibration with user definable security code.
- High intensity 90 dB audible alarm with ultra-bright LED visual alarm.
- Up to 18-hour run time with lithium-ion rechargeable battery.

The VX500 PhotoIonization Detector (PID) provides the ultimate flexibility in portable detection of volatile organic compounds (VOCs). The VX500 utilizes a field-replaceable, plug-in detector and an interchangeable 10.6 eV lamp to

monitor potentially hazardous compounds including benzene, toluene, xylene, and vinyl chloride at levels as low as 100 parts per billion (ppb).

One hundred factory loaded response factors allow you to tune the display reading to a particular target gas while a user programmable list of five “favorite” factors provides easy access to your most commonly encountered hazards. All monitors feature a standard backlit dot-matrix display and high intensity audible/visual alarms. The VX500 weighs only 26 ounces and is encased in an impact resistant ABS composite case, providing optimum EMI and RFI shielding.

An internal pump capable of drawing remote gas samples from up to 100 feet away makes the VX500 ideal for confined space entry testing, leak assessments, arson investigations and

hazardous materials response monitoring. Users can choose from rechargeable lithium-ion batteries, providing up to 18 hours of run time, or replaceable alkaline batteries, yielding up to seven hours of continuous monitoring.

The VX500 also offers simple one-button calibration, TWA and STEL readings with peak/hold memory, and a time delay power button to prevent unintentional monitor shut-off. Datalogging features include memory for up to 1,800 readings, iButton® data input, and customizable data recording intervals between one second to five minutes. The VX500 is also Docking Station™ compatible for complete utilization of the system’s automatic calibration and record-keeping functions and is backed by Industrial Scientific’s “Guaranteed for Life” warranty.

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SPECIFICATIONS	
<b>CASE:</b>	Impact-resistant ABS composite with radio frequency and electro-magnetic interference protection
<b>DIMENSIONS:</b>	10" x 2.9" x 1.9" (254 mm x 74 mm x 48 mm)
<b>WEIGHT:</b>	25.6 oz (726 g)
<b>SENSORS:</b>	Easily accessible, field changeable plug-in 10.6 eV UV ionization lamp
<b>GASES DETECTED:</b>	Volatile Organic Compounds (VOCs) with an ionization potential below 10.6 eV
<b>MEASURING RANGE:</b>	0 to 5,000 ppm (dilution tube used to extend range to 10,000 ppm).
<b>RESOLUTION:</b>	0 to 99.9 ppm in 0.1 ppm increments, 100 to 5,000 ppm in 1 ppm increments
<b>DISPLAY:</b>	Large panel LCD, with manual or automatic backlighting in darkness or alarm conditions
<b>POWER SOURCE (RUN TIME):</b>	3 "AA" Alkaline Battery (7 hours, non-alarm) or Li-ion Battery (18 hours, non-alarm)
<b>TEMPERATURE RANGE:</b>	14°F to 104°F (-10°C to 40°C)
<b>HUMIDITY RANGE:</b>	0 to 90% Relative Humidity (non-condensing)
<b>ALARMS:</b>	90dB @ 1 ft with bright red LEDs, activated when gas concentrations exceed pre-set levels
<b>SAMPLING PUMP:</b>	Internal, constant flow rate of 0.5 liter/min. from 100 ft. (with 1/8" tubing)
<b>DATALOGGING:</b>	Standard, logs all VOC levels and computes STEL and TWA values, Peak/Hold memory "Snapshot" feature for sample/hold datalogging, "Survey" mode for hygiene applications Automatic field and location data input using iButton® memory device Docking Station™ compatible for fully automated calibration and record-keeping functions
<b>SECURITY FEATURES:</b>	Security access code protection of all calibration and alarm settings, time-delay on/off
<b>APPROVALS:</b>	UL, cUL — Class I, Groups A, B, C, D CENELEC (ATEX) and Australia — EEx ia IIC T4

PART NUMBER	DESCRIPTION
18104034-0001	VX500 PID Monitor with 10.6 eV lamp (Li-ion)
18104034-0001A	VX500 PID Monitor with 10.6 eV lamp (Alkaline)
18104414 (-120, -230, -12)*	VX500 Datalink charger with datalogging kit and lamp conditioner (*specify 120v, 230v, 12v)
18104653 (-120, -230, -12)*	VX500 Datalink charger with lamp conditioner (*specify 120v, 230v, 12v)
18104786	VX500 Datalogging kit (included with 18104414)
17088618	VX500 Li-ion rechargeable battery pack
17089376	VX500 Replaceable cell alkaline battery pack
17090572	Rubber protective boot
18102939	100 ppm Isobutylene gas cylinder
18104554	500 ppm Isobutylene gas cylinder
18102509	Demand flow regulator
18104729	iButton® Programming Kit, 120 VAC
18105080	iButton® Programming Kit, 230 VAC
17096348	iButton® Data Memory Cell with mounting kit
17090333	iButton® Data Memory Cell
18104604	VX500/DS1000 Docking Module
17090721	Lamp cleaning kit
18102146	Remote vibrating alarm
18105130	Disposable benzene specific filter tubes (pack of 10) (requires benzene scrubber adapter)
18104885-1	Benzene scrubber adapter with 1/8" hose barb fitting

REV0205

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