



CleanAir®

Performance Beyond Measure

phx42 PORTABLE FID VOC ANALYZER

FUGITIVE EMISSIONS - AMBIENT AIR

www.cleanaireurope.com



LDARtools phx42

FID VOC Analyzer



Also available for rent with technical support included



✓ **FM/UL, CSA, ATEX & IECEx Certified**

✓ **Detection According to Standard Methods:
EN 15446 2008, EPA 21, EPA-453/R-95; AWP**

Hydrocarbons are a common organic compound found throughout the petrochemical industry. While a valuable natural combustion and energy source, these hydrocarbons are also quite hazardous to the human body. Hydrogen, ethane, heptane, and more hydrocarbons are known to cause respiratory, liver, and kidney complications. Thankfully, having a quality FID analyzer at your chemical plant can greatly reduce the risks associated with hydrocarbon exposure.

The phx42 is a portable FID analyzer that measures VOCs in ambient air. This latest generation FID has been specially designed by LDARtools to optimize your fugitive emissions measurements in ATEX environments.

The Most Performant Volatile Organic Compound Analyzer

Robust, light and highly precise, the phx42 presents several innovations dedicated to LDAR (Leak Detection and Repair) programs such as its extended range of VOC measurement up to 100,000 ppm, active regulation of hydrogen, heating time reduced to 15 min and live monitoring via Bluetooth.

SPECIAL FEATURES



EXTENDED RANGE UP TO 100 000 PPM

With over 12 years of research and innovation dedicated to LDAR (Leak Detection and Repair) programs, the phx42 is one of the only portable FID analyzers with a measurement range extended to 100,000 ppm.



MORE COMPACT, LIGHTER AND ROBUST THAN EVER

Thanks to its compact size, the phx42 makes your measurement campaigns much easier. Its aluminum casing protects fragile internal components from shock and weather.



AUTOMATIC CALIBRATION

No more risk for your technicians of inadvertently using a phx42 that hasn't been properly calibrated, thanks to automatic calibration with SpanBox and Freedom.



CONTINUOUS MONITORING

When powered up and fitted with a hydrogen cylinder, the phx42 is capable of continuous VOC measurement with daily data acquisition via the phxApp.



DATA MANAGEMENT VIA BLUETOOTH

Data (voltages, ppm, pump power, pressures and temperatures) are recorded directly on the motherboard and accessible in real time via Bluetooth Android.



HIGH AUTONOMY

The phx42 features a state-of-the-art battery that allows you to carry out measurements for over 10 hours

APPLICATIONS



Fugitive and Diffuse Emissions



Leak Detection and Repair (LDAR Programs)



VOC Measurements in Ambient Air



Landfills & waste treatment sites Monitoring



Biogas Leak Detection

EASY MONITORING VIA SMARTPHONE



Download the phxApp to connect the phx42 in bluetooth.

You can ignite the phx42, view PPMs and other statistics as well as performing a manual calibration.



TECHNICAL SPECIFICATIONS

MEASURING RANGE	0-100 000 ppm Zero oxygen mode: 0-25 000 ppm
RESOLUTION	0,1 ppm
H2 RECHARGE TIME	< 15s
HEATING TIME	15min
BATTERY	Lithium Ion
CASE	Aluminium

INTEGRATED :

- Filtered probe
- Combustion air purifier
- Hydrogen regulator
- Built in bluetooth
- Moisture evacuation in standby mode
- Modern LiO Battery with Management System
- Modular Glow Disk
- Reliable Patented Pump Throttling
- Sleep Mode to evacuate moisture from FID

CONTROL AND DIAGNOSIS SOFTWARE	Preinstalled on the tablet provided
DIMENSIONS	W x D x H = 25.4 x 5.5 x 19 cm
WEIGHT	3.3 kg

KEY POINTS

- Compact, light, precise and robust
- Range extended to 100,000 ppm
- Data monitoring via Bluetooth Android
- Improved hydrogen control
- Integrated H2 Cylinder
- Filter removal detection
- Combustion air purifier
- 10 minute pump replacement
- Operate in reduced Oxygen locations
- 10 hours autonomy (5 hours in zero oxygen mode)
- Configurable for Cooling Tower Monitoring
- Optimized for Extreme Cold

BASIC SET INCLUDES

- Probe
- Probe filters set
- H2 Refill kit
- Backpack

OPTIONAL

- ATEx Smartphone

ONLINE CUSTOMER PORTAL

- Level one repair tech certification program
- Access to equipment repair info
- Onboard logging for diagnostic purposes

SPAN BOX AUTOMATIC CALIBRATION



Calibrates up to 6 phx42 analyzers for 6 span gasses simultaneously! SpanBox automatically captures and preserves all calibration data you are required to generate and store, including accuracy confirmation and drift assessments. Just connect the phx42 to the SpanBox, press “Start” and reply to the prompts!

Discover The phx42 Zero Oxygen Mode

The phx42 ZOM can perform VOC sampling in low oxygen or no oxygen environments such as nitrogen buffers, carbon canisters, VOC tank inspection or other specific applications.

What was previously impossible to monitor because there was not enough oxygen available at the probe tip to sustain the hydrogen flame in the FID is now achievable with the phx42 ZOM!

