

GPX1500 Vial

Headspace gas analyzer for non-intrusive measurements in vials, ampoules, and syringes

Non-destructive at-line, storage or laboratory quality testing. GPX1500 Vial allows quick and easy testing of pharmaceutical vials, ampoules, and prefilled syringes. The result is presented immediately on the touch screen. The non-destructive measurement lets you return the samples to the production line with no waste.

Several types of containers are supported, including tubular, and moulded vials, ampoules, and syringes. The sample is placed in the holder. An infrared light beam is sent through the headspace of the container, probing the gas inside and providing an instant result. The laser light is completely eye safe. Our methods are non-destructive, deterministic and USP 1207 recognized.



Benefits

- Parameter free
- Calibration free
- Completely eye safe
- Cost saving
- Non-destructive testing
- Reliable sensing
- User-friendly touch screen
- No need of N₂



Supported Containers

- ISO tubular vials from 2R to 100R
- Moulded vials with diameters from 16mm to 49 mm
- ISO 1 - 30 ml ampoules
- ISO Prefilled syringes
- Other ampoules with diameters from 10.75mm to 22.5 mm
- Containers with a free headspace starting from 7mm to 10 mm, depending on their diameter
- All types of liquid and solid products

Specifications					
Gas:	O ₂	H ₂ O*	CO ₂	Startup time:	<1 minute
Measurement range:	0 - 100%	Total pressure: 50 - 1000 mbar Partial pressure: 2-30 mbar	0 - 100%	Approvals:	CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU
Display resolution:	0.01%	1 mbar	5% relative	Primary electrical:	100 - 240V, 50W, 50 - 60Hz AC
Infrared laser:	Class 1 according to IEC 60825-1 760 nm, <0.5 mW 1400 nm, <10mW 2000 nm, <10mW			Housing:	Metal housing
Typical performance:				Measurement time:	2 seconds
Accuracy Precision	0.1% 0.03%	Total pressure: ± 0.2 mbar or ± 5 % relative Partial pressure: ± 0.5 mbar ± 0.2 mbar	5% relative 0.02%	Weight:	8 kg
Measuring technique:	HSA/TDLAS - Tunable Diode Laser Absorption Spectroscopy			Interfaces:	Touch screen HMI, USB, Service ethernet, Serial RS422
Temperature:	15 - 25°C			Dimensions (HxWxD):	210 mm x 480 mm x 265 mm

* All H₂O Specifications are based on 10R format