

## GPX1500 Vial

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

Non-destructive at-line, storage or laboratory quality testing. GPX1500 Vial allows quick and easy testing of pharmaceutical vials and ampoules. 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 or ampoules.

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 method is non-destructive, deterministic and USP 1207 recognized.



### Supported Containers

- ISO tubular vials from 2R to 100R
- Moulded vials with diameters from 16 to 49 mm
- ISO 1ml to 30 ml ampoules
- Other ampoules with diameters from 9.75 to 23.5 mm
- Containers with a free headspace starting from 7 to 10 mm, depending on their diameter
- All types of liquid and solid products

### Specifications

|                          |  |
|--------------------------|--|
| Gas:                     | O <sub>2</sub>   |
| Measuring technique:     | TDLAS – Tunable Diode Laser Absorption Spectroscopy                                |
| Measurement range:       | 0 – 100%   |
| Measurement time:        | 2 seconds  |
| Resolution:              | 0.1% O <sub>2</sub>  |
| Typical precision (std): | 0.01-0.1% O <sub>2</sub> depending on container size                               |
| Startup time:            | <1 minute  |
| Approvals:               | CE-marked according to:<br>- EMC 2014/30/EU,<br>- Low Voltage Directive 2014/35/EU |

|                       |  |
|-----------------------|--|
| Infrared laser        | Class 1 according to IEC 60825-1<br>760 nm wavelength, <0.5 mW optical power |
| Interfaces:           | USB, Ethernet for remote support   |
| Housing:              | Metal housing  |
| Weight:               | 8 kg   |
| Dimensions (HxWxD):   | 210 x 480 x 265 mm   |
| Temperature:          | + 5°C to + 40°C  |
| Primary electrical:   | 100 – 240 V AC, 50 W, 50/60 Hz   |
| Secondary electrical: | 18 – 30 V DC   |
| Calibration:          | Calibrated ampoules/vials are sold separately                                |

### Benefits

- Reliable oxygen sensing
- Non-destructive testing
- Low headspace required
- Instant spot-checks at-line
- Test shelf-life in storage
- User-friendly touch screen
- Easy to operate
- Completely eye safe
- No need of N<sub>2</sub> flushing