



Product data sheet

GPX Porosity

Non-destructive measurements for porosity analysis of pharmaceuticals.

The GPX Porosity is a completely non-destructive and non-contact at-line instrument for optical porosity analysis of ribbons produced by e.g. a roller compactor in the process of the tablet production. The instrument is fast with a measurement time of a few seconds, accurate and easy to use.

No special sample preparation is required. The sample is placed on the sample stage and the automated process of the instrument moves the sample into the instrument, which offers easy testing. No lab with additional instruments needs to be available and the measurement can be done at-line by a normal line operator. Due to the non-destructive technique, the sample is unchanged after measurement and is available for further use. The instrument is operated by the proprietary software GPX Porosity-studio.

Benefits

- Easy to use
- Non-destructive
- Non-intrusive
- Results within 30 s
- Accurate
- Robust
- Independent on formula
- Calibration free
- Completely eye safe

Instrument specifications

Gas:	O ₂
Measuring technique:	GASMAS (GAs in Scattering Media Absorption Spectroscopy) and TOF (Time Of Flight)
Measurement range:	0-100% optical porosity
Measurement time:	Min 5 seconds
Accuracy:	± 1% absolute
Startup time:	<1 minute
Temperature:	15-30 degrees Celsius
Pressure:	Ambient pressure
Interfaces:	Computer
Housing:	Powder coated steel
Weight:	25 kg
Dimensions (HxWxD):	280 x 600 x 450 mm excl computer
Power:	Primary: 220V
Laser Class:	Class 1 according to IEC 60825-1 760nm wavelength
Accessory:	Sample holder

Technology and Applications

- Applications**
- Ribbon
 - Tablets

Technology Gasporox is highly specialize in the development and application of optical spectroscopy. The system combines two techniques, GASMAS (GAs in Scattering Media Absorption Spectroscopy) and TOF (Time Of Flight). A special algorithm is calculating the optical porosity and the integrated calibration curve converts it to the physical porosity.

