Leybold

Residual Gas Analyzers

LEYSPEC

330.00.02
Excerpt from the Leybold Full Line Catalog (Edition 2022)
Catalog Part Residual Gas Analyzers

Products

Residual Gas Analyzers

LEYSPEC view and LEYSPEC ultra

The LEYSPEC product family offers simple and intuitive operation with an on-board control and display unit. Simple residual gas analysis is possible without even connecting the device to a computer.

Due to the intuitive interface, the Residual Gas Analyzer (RGA) is very easy to operate. At the push of a button, you can display the partialpressures of key gases and if your process involves an additional gas, you can assign it to the spare display channel. Due to the high bake-out temperatures achievable, the RGA is ideal for use in demanding high vacuum and ultra high vacuum applications.

The LEYSPEC RGA offers greatest sensitivity combined with an intuitive software that allows all basic and advanced test procedures.

Advantages to the User

- **Intuitive software**
  The intelligent and intuitive LEYSPEC software completes the offering. The easy user interface allows a wide range of use cases, from simple operations to complexanalysis. Creating recipes is as easyas it should be: Quick and convenient.During operation the total pressure is displayed and different views can be chosen to fit the view for the purpose of the analysis.Choose between the scan mode, trend mode or analog mode.
- **Highest Sensitivity**
  The LEYSPEC product family offers the highest sensitivity for the most accurate residual gas analysis.This allows detecting even the smallest traces of contaminants or process gases
- **Highest bake-out**
  With its high bake out temperatures of up to 300°C, the LEYSPEC ultra is perfectly suited for sophisticated high and ultra high vacuum applications.The LEYSPEC ultra range offers highest bakeout temperature so even in harsh environments reliable gas analysis can be performed
- **Advanced feature**
  Preinstalled software functions allow many additional functionalities and test procedures such as a helium leak test or setting of warnings and error levels for selectable gases. A programmable degas function is implemented for simple process degassing after start or exposure to atmosphere. The background suppression allows focussing on the important peaks
- **Different product types**
  The new LEYSPEC range offers the perfect solution for any application in mass spectrometry. Focusing on residual gas analysis the product range offers solutions for 100, 200 or 300 amu – depending on the process requirements. All products come with the integrated display for easy and quick operations as well as the LEYSPEC software for sophisticated test procedures and residual gas analysis. Compact in size and mountable in any orientation, the LEYSPEC product range is perfectly suited for different built-in situations

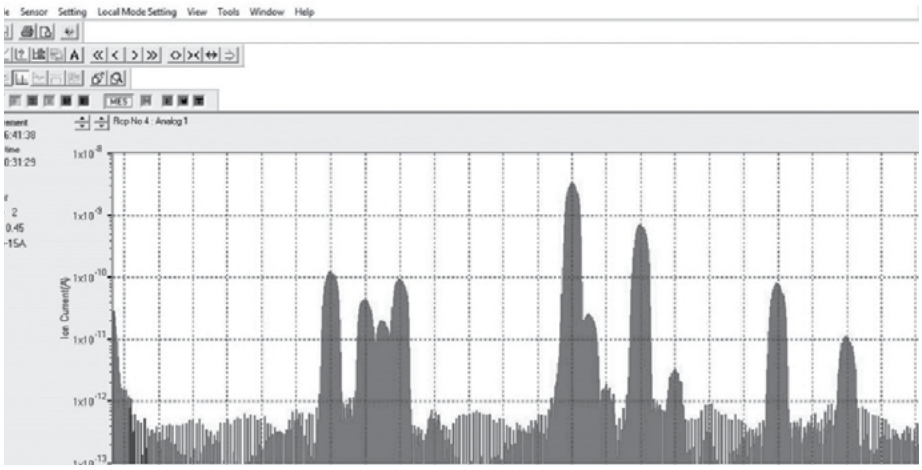
Typical Applications

LEYSPEC view

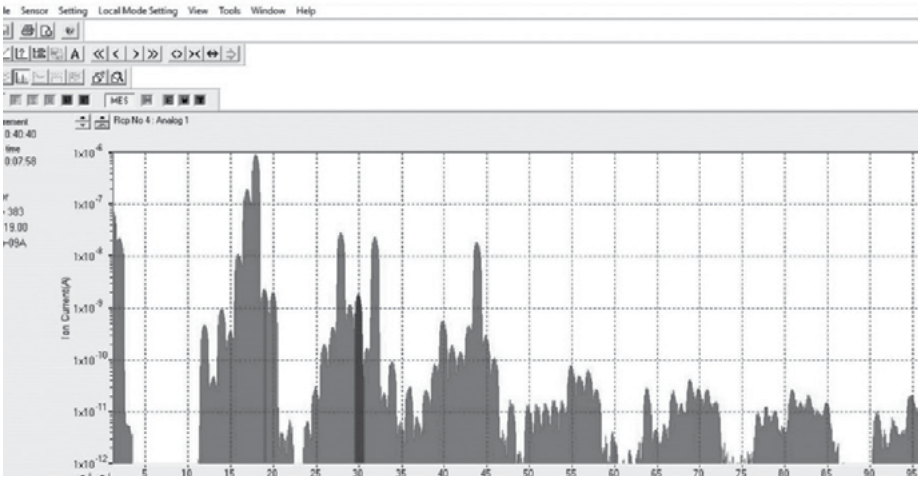
- Residual gas analysis in high vacuum pumping equipment
- Gas analysis in R&D, freeze drying analytical systems and many more
- Analysis of organic materials
- Environmental tracking
- Gas impurity analysis

LEYSPEC ultra

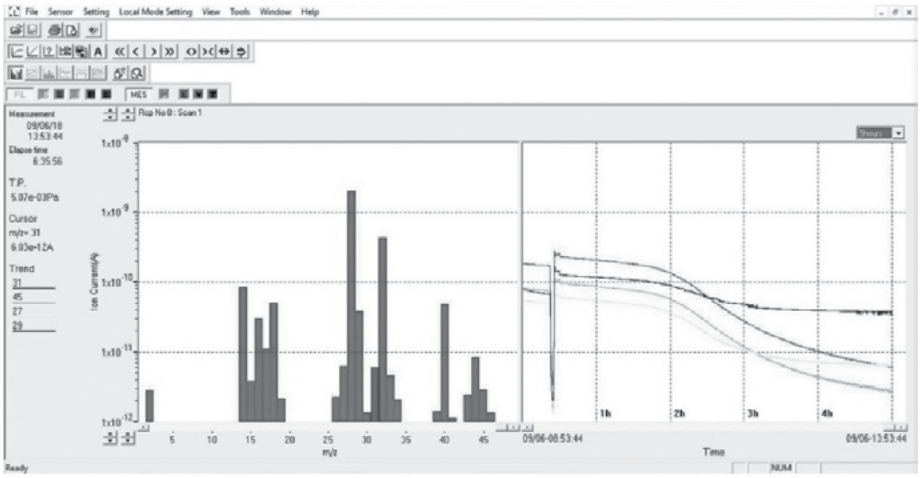
- Advanced range for all residual gas analysis
- For sophisticated residual gas analysis with higher sensitivity
- Reliable detection of very low partial pressures
- Suited for higher bake-out temperatures



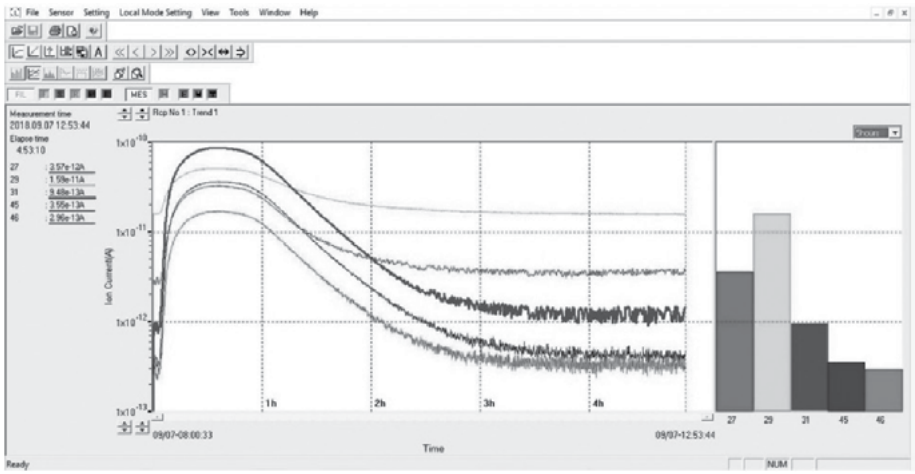
Analog mode



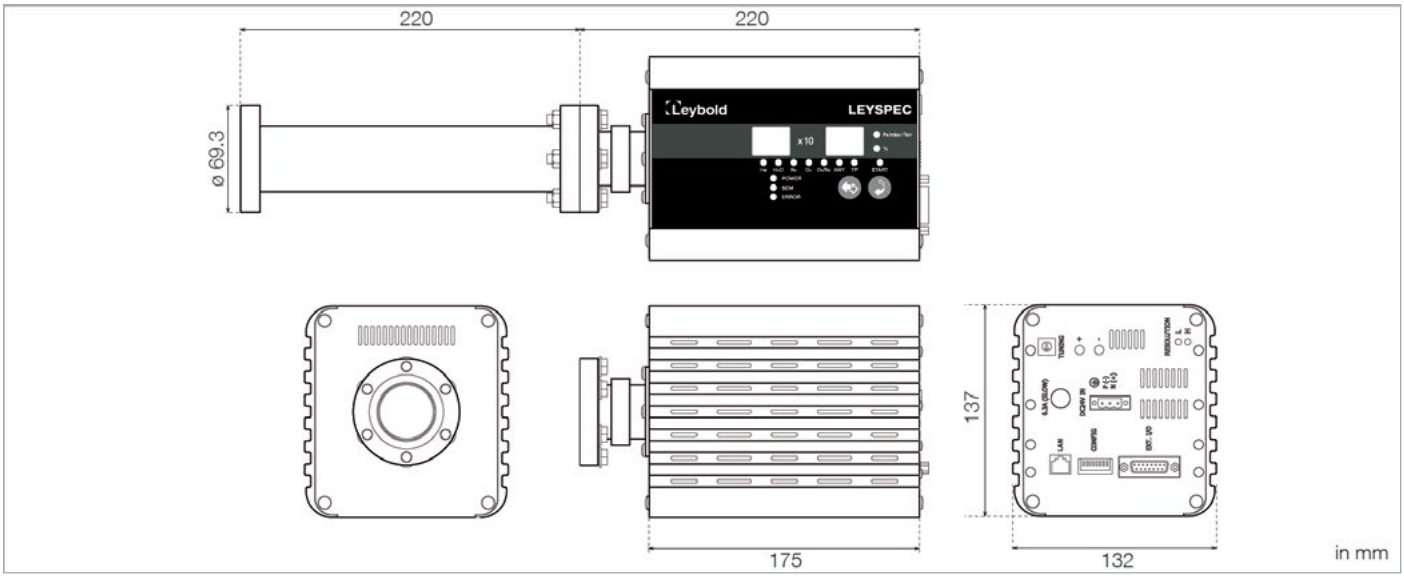
Analog mode hydrocarbons



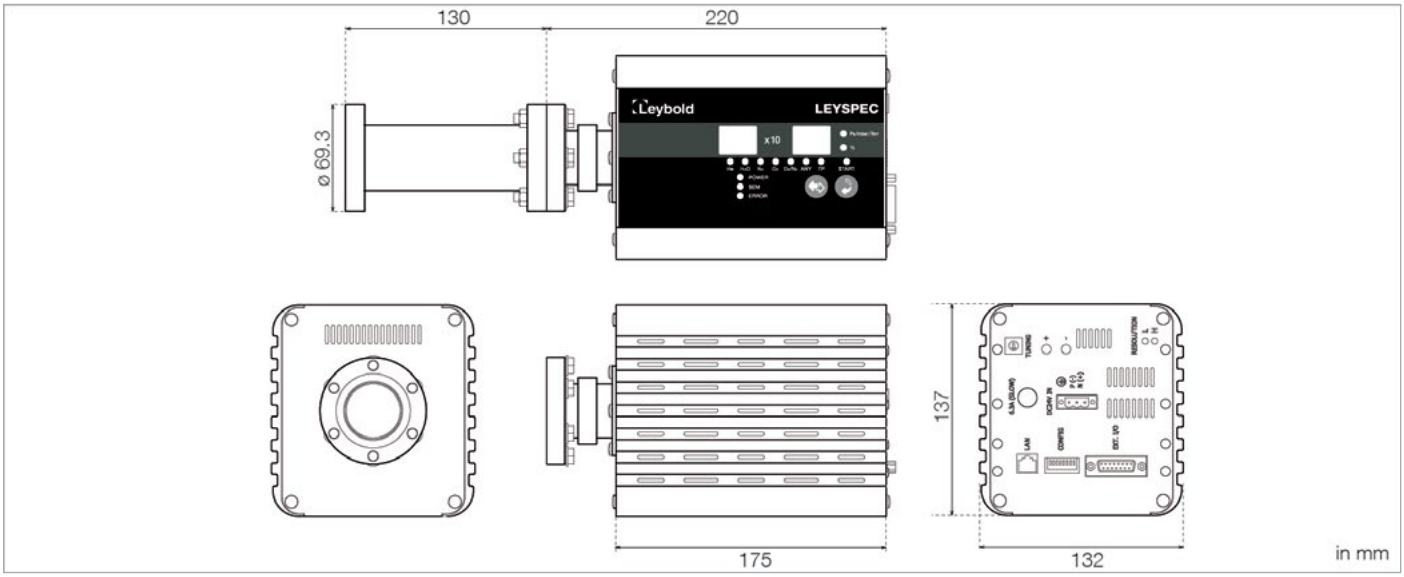
Scan and trend mode



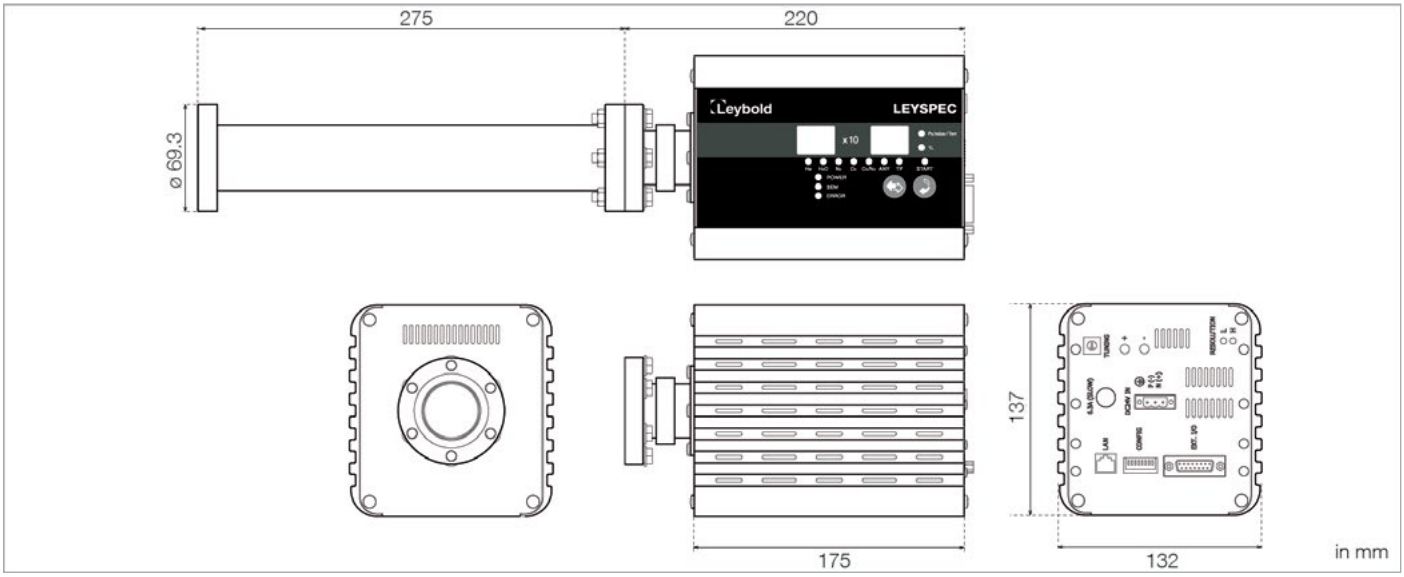
Trend mode



Dimensional drawing for LEYSPEC view 100 / 200



Dimensional drawing for LEYSPEC view 100S / 200S



Dimensional drawing for LEYSPEC ultra 200S / 300S

Technical Data

		LEYSPEC					
		view 100	view 100S	view 200	view 200S	ultra 200S	ultra 300S
Mass range	amu	1 - 100	1 - 100	1 - 200	1 - 200	1 - 200	1 - 300
Mass filter type		QMS					
Detector type		Faraday cup	EM / Faraday cup	Faraday cup	EM / Faraday cup	EM / Faraday cup	EM / Faraday cup
Sensitivity	A/mbar	1×10^{-5}	$400/1 \times 10^{-5}$	1×10^{-5}	$400/1 \times 10^{-5}$	$400/2.5 \times 10^{-4}$	$400/2.5 \times 10^{-4}$
Minimum detectable partial pressure	mbar	1×10^{-10}	1×10^{-14} / 1×10^{-10}	1×10^{-10}	1×10^{-14} / 1×10^{-10}	1×10^{-15} / 1×10^{-11}	1×10^{-15} / 1×10^{-11}
Maximum operating pressure	mbar	1×10^{-4}					
Filament material		Ir/Y203					
Operating temperatur	°C	10 - 40					
Maximum backing temaperature with electronics	°C	120	120	120	120	250	250
Maximum baking temperature without electronics	°C	250	250	250	250	300	300
Connection flange		DN 40 CF					
Power input		DC 24 V ± 10% 50 W					
Weight	kg	2.6	2.8	2.6	2.8	3.2	3.2
IP		30					
Communication		Ethernet					
Software		LEYSPEC software					
Resolution		M / DeltaM = 1M(10%PH)					

Ordering Information

	LEYSPEC					
	view 100	view 100S	view 200	view 200S	ultra 200S	ultra 300S
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
LEYSPEC	**220010V01**	**220011V01**	**220012V01**	**220013V01**	**220020V01**	**220021V01**

Notes

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