

# Residual Gas Analyzers

Residual

LEYSPEC

# 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 partial pressures 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 complex analysis. Creating recipes is as easy as 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

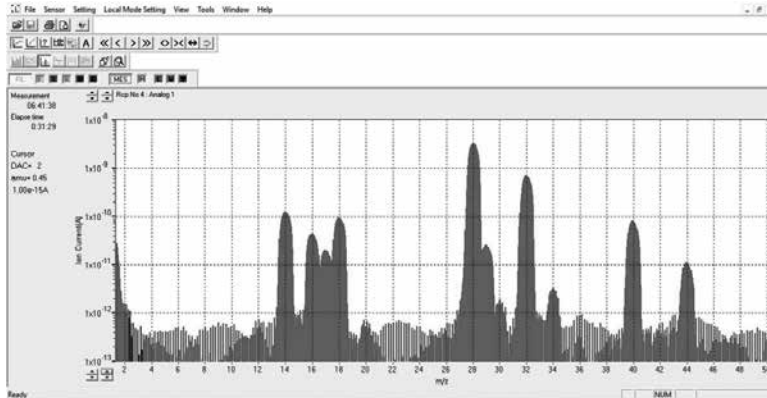
#### Typical Applications

##### LEYSPEC view

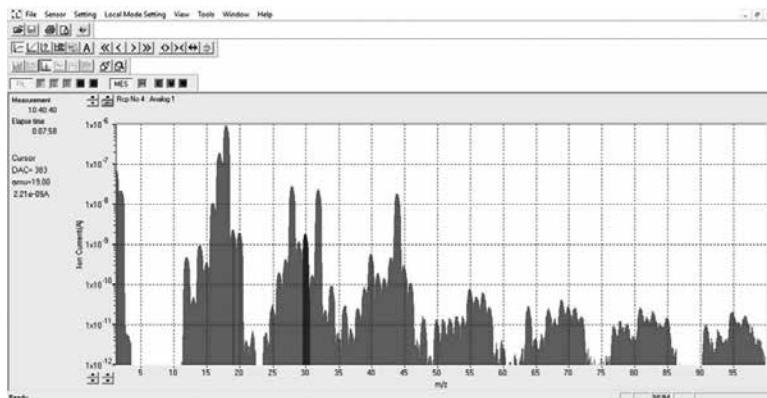
- Residual gas analysis in high vacuum pumping equipment
- Gas analysis in R&D, freeze drying, analytical systems and many more
- Analysis of organic materials
- Environmental tracking
- Gas impurity analysis

##### LEYSPEC ultra

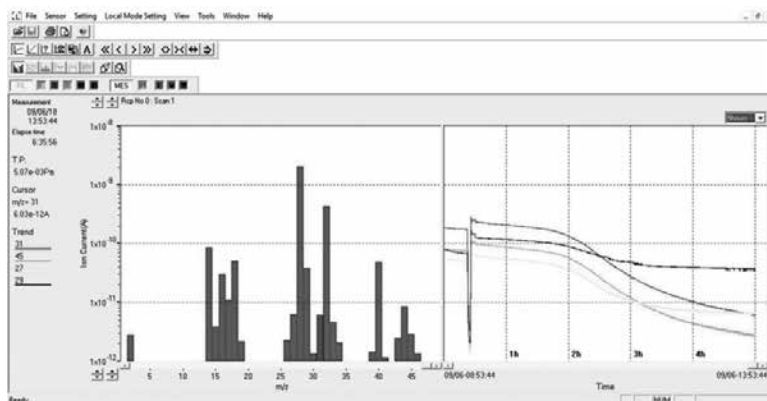
- Advanced range for all residual gas analysis
- For sophisticated residual gas analysis with higher sensitivity
- Reliable detection of very low partial pressures
- Suited for higher bake-out temperatures



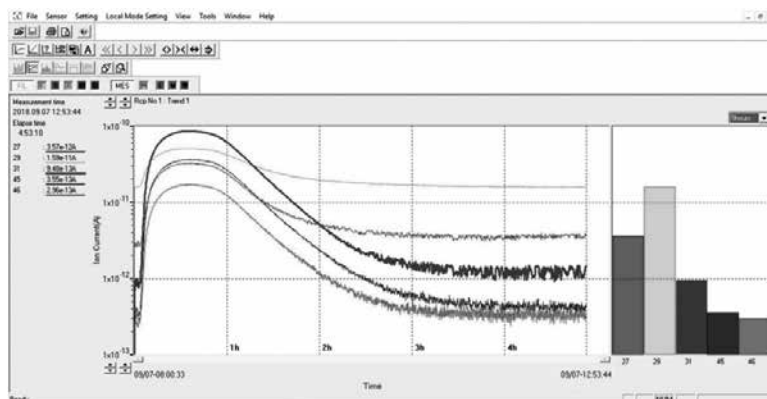
Analog mode



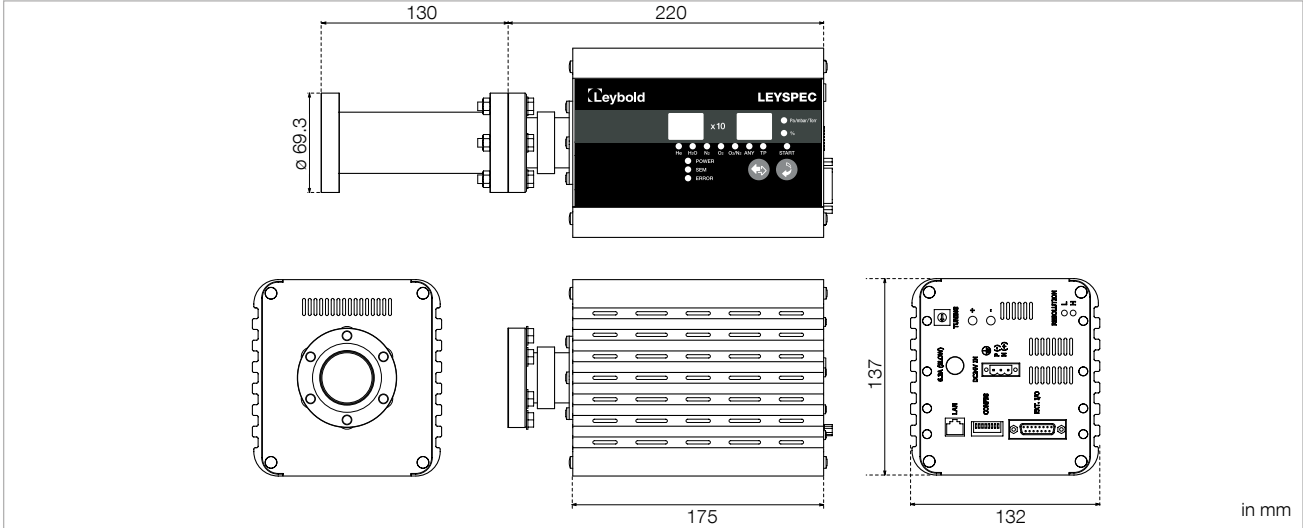
Analog mode hydrocarbons



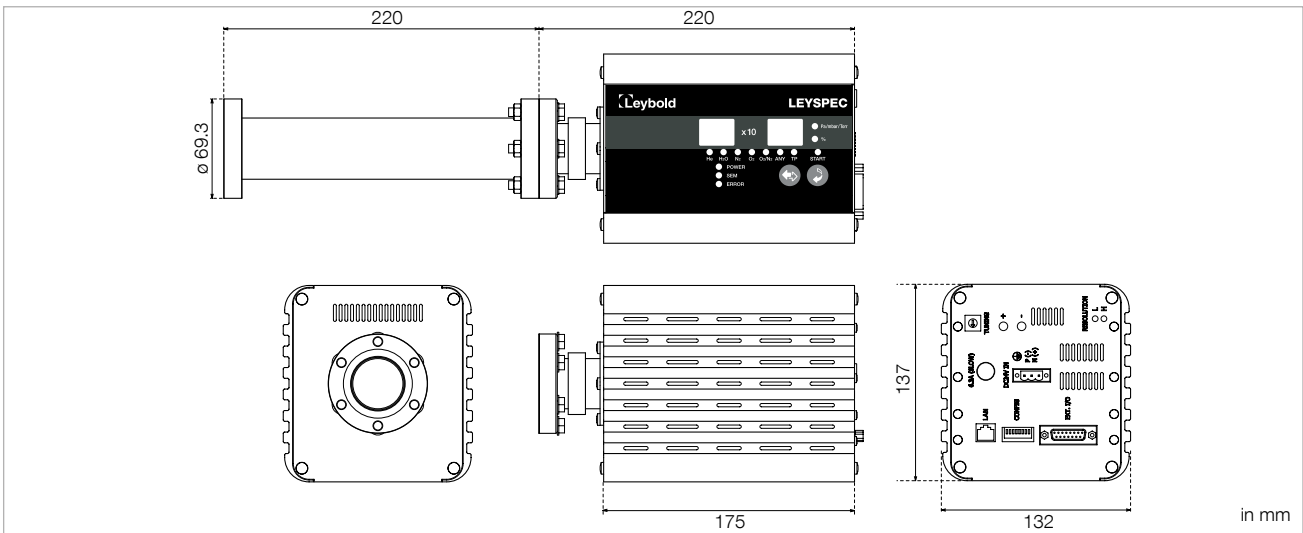
Scan and trend mode



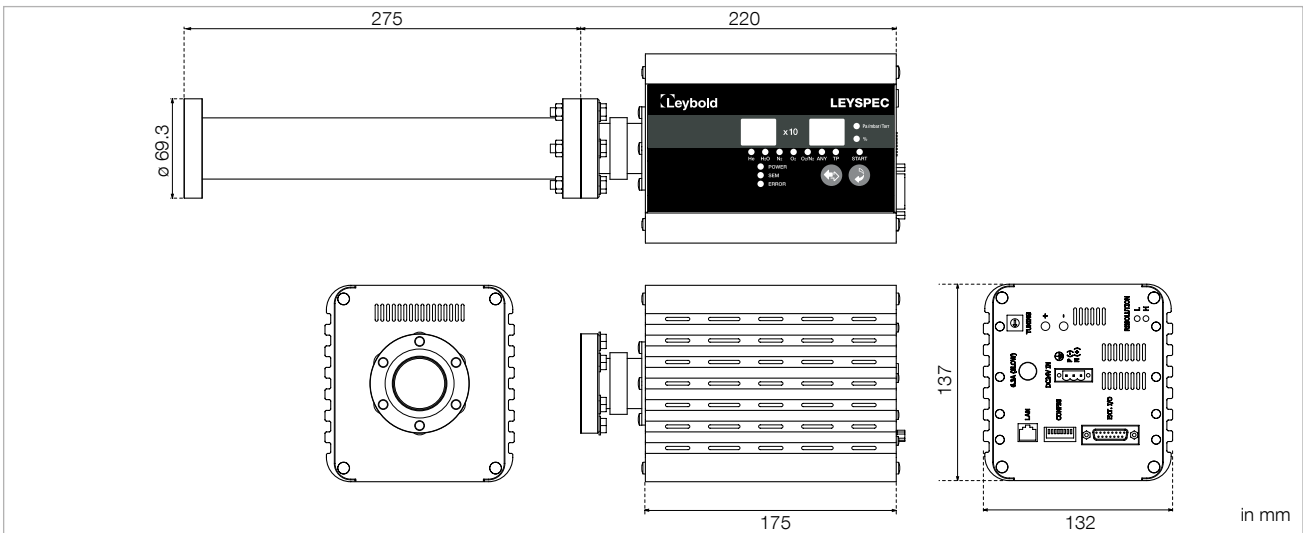
Trend mode



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 x 10 <sup>-5</sup>	400/1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	400/1 x 10 <sup>-5</sup>	400/2.5 x 10 <sup>-4</sup>	400/2.5 x 10 <sup>-4</sup>
Minimum detectable partial pressure	mbar	1 x 10 <sup>-10</sup>	1 x 10 <sup>-14</sup> / 1 x 10 <sup>-10</sup>	1 x 10 <sup>-10</sup>	1 x 10 <sup>-14</sup> / 1 x 10 <sup>-10</sup>	1 x 10 <sup>-15</sup> / 1 x 10 <sup>-11</sup>	1 x 10 <sup>-15</sup> / 1 x 10 <sup>-11</sup>
Maximum operating pressure	mbar	1 x 10 <sup>-4</sup>					
Filament material		Ir/Y203					
Operating temperature	°C	10 - 40					
Maximum sensing temperature	°C	120	120	120	120	250	250
Maximum bake out temperature (electronics removed)	°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					
Serial communication		RS232C / RS485					
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





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