

RESIDUAL GAS ANALYSER SYSTEM eRGA1

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Residual gas analysers perform analysis of gases and their composition, the eRGA1 Residual Gas Analyser System has been designed to take that a step further.

The eRGA1 combines an Edwards **PRA/WRA** Residual Gas Analyser and a **T-station 85** turbomolecular pumping station.

It is a fully customisable system capable to cope with differing pressures, making it **a truly multi purpose gas analyser.**

By supplying a wide range of inlet options for total flexibility when connecting to almost any process, a UHV high conductance valve, a UHV leak tight variable pressure valve or a Orifice and Bypass option: eRGA1 offers **precise analysis whatever the pressure requirement.**

ERGA¹



FEATURES AND BENEFITS

- Easy to use
- Table top configuration
- Choice of turbomolecular pumping station
- Multiple inlet options
- Suitable for all RGA versions
- Easy and intuitive software for RGA

APPLICATION AND MARKETS

ERGA1 system are configurable with pumping system, sealing type and RGA version. Whether oil free all metal seal of a simple rotary vane pump and o ring seal version the Edwards RGA rig provides a solution of gas analysis.

RGAS DO ANALYSIS OF GASES & THEIR COMPOSITION, THIS IS NEEDED FOR:

- Leak detection and identification
- Find and identify contaminants
- Verify gas purity
- Product/process quality assurance
- Process and equipment diagnostics and control
- Optimise process performance and yield

PERFORMANCE, OPERATING & STORAGE DATA

	Units	ERGA1
Pressure range without inlet option	mbar	From 1x10 ⁻⁴
Pressure range for UHV High conductance valve option	mbar	From 1x10 ⁻⁴
Pressure range for UHV Leak valve option	mbar	From atmospheric pressure to 5x10 ⁻⁸
Pressure range for Orifice and Bypass option	mbar	From 0.04 to 0.01 (1mm orifice), other sizes upon request.
Ultimate pressure	mbar	< 5 x 10 ⁻⁸ 48 hours after bakeout with baking pressure < 5 mbar (500 Pa).
Degree of protection (to IEC34-5: 1981)	IP	20
Ambient operating temperature range	°C	+12 to +40
Ambient storage temperature range	°C	-30 to +70
Maximum ambient operating humidity	°C	max. 90% RH non-condensing at +40
Maximum operating altitude	m	max. 2000

ORDERING INFORMATION

CODE RGA			Pump type T-STATION	RGA type	Inlet option	Gauge
RGA	0	0	A = DRY CF63 200-230V	0 = NO RGA option	0 = NO Inlet option	0 = NO gauge
			B = DRY ISO63 200-230V	1 = PRA100	1 = UHV High conductance valve	1 = AIM200-X-NW25
			C = DRY CF63 100-120V	2 = PRA200	2 = UHV Leak Valve	2 = WRG200-X-NW25
			D = DRY ISO63 100-120V	3 = PRA100S	3 = Orifice & bypass	3 = AIM200-X-DN40CF
			E = WET CF63 200-230V	4 = PRA200S		4 = WRG200-X-DN40CF
			F = WET ISO63 200-230V	5 = WRA200S		
			G = WET CF63 100-120V	6 = WRA300S		
			H = WET ISO63 100-120V			
			I = DRY mXDS3s CF63 200-230V			
			J = DRY mXDS3s ISO63 200-230V			
			K = DRY mXDS3s CF63 100-120V			
			L = DRY mXDS3s ISO63 100-120V			

Rough notes for reference only: RGA rigs are configurable with pumping system, sealing type and RGA version. Weather oil free all metal seal of a simple rotary vane pump and o ring seal version the Edwards RGA rig provides a solution.

A wide range of inlets are available from a simple high conductance valve, to variable pressure options or fully customisable inlets are available.

Publication Number: 3601 0784 01.

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