

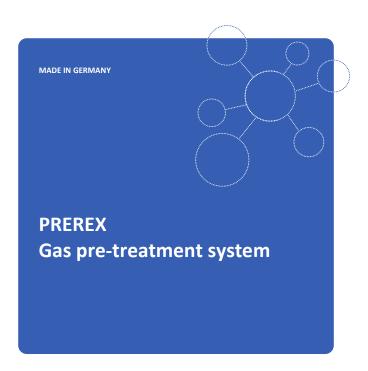
Electro Optical Components, Inc.

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403 Toll Free: 855-EOC-6300



www.eoc-inc.com | info@eoc-inc.com

smartGAS.



- Complete solution for a great number of applications
- Long term reliable reproduceable measuring results
- Optimum operational safety due to self-monitoring
- Extremely precise long term stable dew point
- Fast response time due to low dead volume
- Very low dissolution rates
- Continuous condensate removal
- Low maintenance operation
- Easy to maintain design



The PREREX gas pre-treatment system of smartGAS is a high-performance solution for various sectors of industrial gas measurement technology. The fields of application range are from process measurement technology and emissions to fruit ripening. It convinces with its long term reliable reproduceable measuring results as well as its extremely precise long term stable dew point even under varying loads and optimum operational safety due to self-monitoring.

The PREREX is designed as a complete solution for a great number of applications and is suitable for installation in a 19" rack.

Application examples

Customizing options

Emission monitoring CEMS

High performance corrosion resistant sample gas pump Easy to maintain robust fine dust filter

Biogas Process control

Corrosion resistant flowmeter with precise needle valve

Fruit ripening

Reliable condensate monitoring

High voltage

Acid dosing pump



General features

Description:	Sample gas conditioning system
Cooling principle:	compressor cooling with hot gas bypass
Number of gas paths:	1 to 4

Basic information

483 x 310 x 408 mm
19" rack mounting
horizontal
CE
25 to 31 kg (dependant on configuration)
PVDF
52 ml
PVDF hose fitting DN 4/6 mm
220 to 240 VAC 50/60 Hz or 100 to 115 VAC 50/60 Hz
200 to 345 VA
external on installation site, fuse characteristic C: 230 VAC 6 A; 115 VAC 10 A
IP 20 (EN 60529)
100 %
< 0 / > +10°C
volt free changeover contact
volt free contact NC
max. 250 VAC / 8 A (1,5 A at 250 VDC); min. 5 VADC 5 mA
DB 9 female
RS485 / ST Bus
1000 m

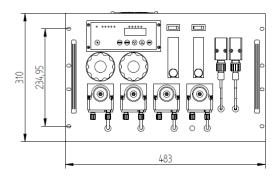
PREREX Edition 19/05_2021

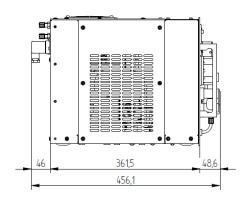


Operation

Flow rate*:	max. 120 NI/hr
Gas temperature inlet*:	max. +140°C
Dew point inlet*:	max. +80°C
Dew point outlet:	+3°C
Dew point stability (for constant inlet conditions):	±0,1K
Ambient temperature:	+5° to +45°C
Operating pressure:	0.2 to 2.2 bar
Ready for operation:	< 10 min
Pressure drop at max. flow rate:	2 mbar

Drawing





* Results from the effective cooling capacity at 25°C ambient temperature and 3°C outlet dew point and can be influenced by further operational parameters

All rights reserved. Any logos and/or product names are trademarks of smartGAS. The reproduction, transfer, distribution or storage of information contained in this brochure in any form without the prior written consent of smartGAS is strictly prohibited. All specifications – technical included – are subject to change without notice. Depending on the application, the target gas and the measurement range the technical data may differ. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale.

For more information, please visit www.smartgas.eu or contact us at sales@smartgas.eu

Please consult smartGAS sales for parts specified with other temperature and measurement ranges. At first initiation and depending on application and ambient conditions recalibration is recommended. Recurring cycles of recalibration are recommended.