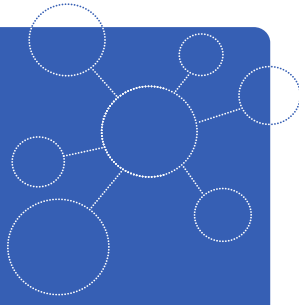


GERMAN TECHNOLOGY



PGD alpha

Portable Gas Detector alpha
#2-NI46 ETO 3 Vol.-%

Product features:

- Full Day battery life(8h)
- Usable during charging
- Easy One Hand operating
- Automatic calibration
- Alarm functions
- Automatic Data Storage
- USB Interface
- Windows Software
- IATA flight transport certification



PGD alpha of **smartGAS** is a high-performance solution for quick and accurate detection of multiple gases. The fields of application range from detection of gas concentrations in pipelines or conformed spaces, atmospheric environments, gas leaks and single or multiple gas purity tests where the background gas is nitrogen or air. The **PGD alpha** is the perfect choice for portable gas detection tasks, gas alarm and personal safety.

smartGAS Mikrosensorik GmbH

Huenderstrasse 1, 74080 Heilbronn, Germany
T +49 (0) 7131 797553-0
sales@smartgas.eu www.smartgas.eu

smartGAS Sensor Technology Co., Ltd

Building 16, No. 59 Jiangnan Rd. CEDZ Changshu, Jiangsu, China
T +86 (0) 512-83380880
info@smartgas-cn.com www.smartgas-cn.com

PGD alpha #2-NI46 ETO 3 Vol.-%

General features

Release date: 1 May 2025

Portable Gas Detector

Gas Connection:	6/4mm PU Tube
Dimensions/Weight:	217x92x80mm (length, width and height)/ 850g (depend on configuration)
User Interface:	Press Button, 4.3-inch TFT
Gas Inlet by Suction:	With build-in pump (300ml/min)
Inlet Gas Temp.:	5 ... 35 °C
Inlet Gas Pressure:	Environment Pressure
Moisture in Gas:	inlet gas dew point: 5 °C ±0.1 °C
Dust in gas flow:	100 µg/m ³ , ≤ 1µm
Warm-up time (full specification):	< 3 minutes
Internal Gas Tubing:	PU (certified)
Zero Calibration Gas :	Nitrogen/Ambient Air
Span Calibration Gas Background:	Nitrogen/Air

Measuring*

Response time (t90)**: < 30 s

Gas	Technology	Range	Linearity Error	Display	C.C**	P.C***
1 ETO	IR	0 ... 3 Vol.%	±3%[FS]	X.xx	/	no
2 /						
3 /						

Electrical parameters

Charger:	USB Charger 10,5W
Power Connector:	By Country Code
Interface:	USB Type-C

Climatic conditions

Operating / Charging temperature:	5 ... 40 °C / 0 ... 45 °C
Storage temperature:	-20 ... + 60 °C
Air pressure:	760 ... 1160 hPa
Ambient humidity:	10 ... 95 % relative humidity (not condensing)

Accessories to be ordered separately :

Charger	Power Cable (Refer to the requirement of country)
Transport Box	Carrying Bag with shoulder harness
Sampling Probes	

* Typical values related to 1013 hPa, Ta = 22 °C, flow = 0.7 L/ min for dry (not condensing) and clean sample gas.

Stated values exclude calibration gas tolerance.

** C.C : Internal Cross compensated by other gas

*** P.C : Pressure compensated

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.