



• Eliminate leaks

• Filter foreign gases



Digital form at: www.cgs-company.de/downloads/ MDZ_E_D_PGU.pdf

CGS ANALYSEN-, MESS-UND REGELTECHNIK GMBH

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(peruniation).

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Why re-purge? Causes for leaks due to dissolved gases:

they are also dissolved deep within the metal structure.

In metals, gases are not just absorbed at the surface level. To a greater or lesser extent,

At a certain temperature and gas pressure, and depending on the type of metal and the types of gas in contact with this metal, this will result in a gas proportion within the metal that is in a state of equilibrium with the respective gas atmosphere. Foreign gases may enter a system in two different ways: they either flow into the apparatus by way of individual leaks (pores), or they permeate gas-carrying systems

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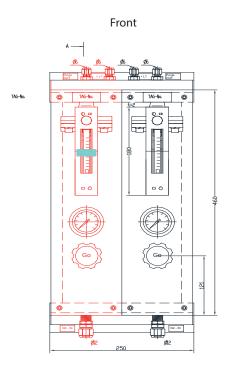
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Technical data

Ambient temperature:	-10°C to +50°C
• Type of protection (with flow meter only):	IP 65
Material housing:	VA / flow meter: glass
 Material TAG-No. plate: 	VA stainless steel
• Flow:	0 - 100 NI/h
Pressure range max. IN:	0 - 10 bar / 0 - 145 PSI
Pressure range max. OUT:	0 - 4 bar / 0 - 58 PSI
• Type of gas:	N ₂ (Inert gases)
Medium temperature:	-5°C to 100°C
 Inlet fittings: 	12 mm, 1/2"
Outlet fittings:	6 mm, 1/4"
• Measurements Purge gas unit (W x H x D):	250 x 540 x 480 mm
• Weight:	21,9 kg (2-line)

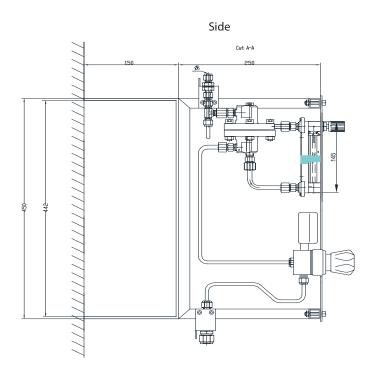
Drawing



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Option 2-line Option Ring proximity switch

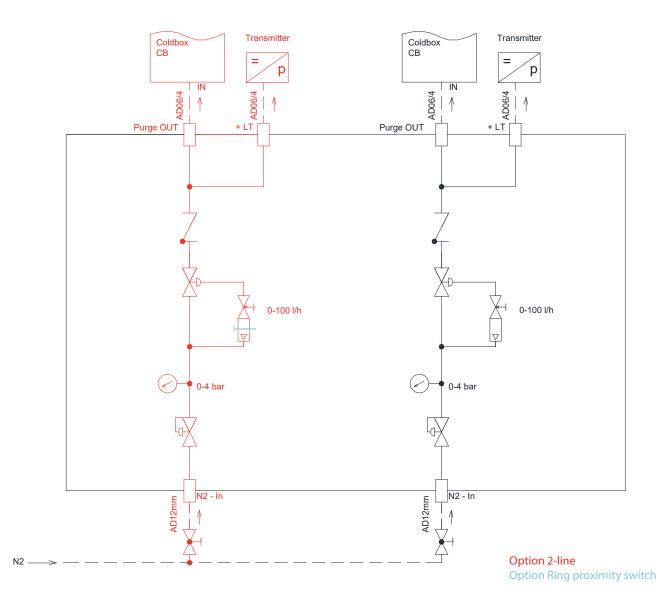


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Gas flow scheme



Application of the Purge gas unit

Inert gas is introduced to dilute or purge any escaping process gases during the air separation process in cold boxes or in tubes and apparatus cases. For this, CGS purge gas units are used, depending on the application, so as to keep the defined, inflowing inert gas at a constant using the appropriate counter pressure.

In order to keep the flow rate of the inflowing inert gas at a constant when experiencing pressure fluctuations, the purge gas unit is equipped with mechanical differential pressure regulators (back pressure regulators) including the appropriate pressure and flow-rate gauges.

The robust, mechanical design allows the units to be installed on-site and directly on the apparatus cases themselves or on the section which is to be purged. As an option, an electronic flow rate monitor (ring proximity switch) can be integrated into the flow meter, and/ or a pressure transmitter into the purge gas unit, to remotely monitor proper functioning of the purge gas unit.

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Order numbers

Article	Order number
1-line metrical PGU-10	1019550
 1-line metrical with flow PGU-10-R 	1033904
1-line imperial PGU-11	1033905
 1-line imperial with flow PGU-11-R 	1033906
• 2-line metrical PGU-20	1019551
 2-line metrical with flow PGU-20-R 	1033907
• 2-line imperial PGU-21	1033908
 2-line imperial with flow PGU-21-R 	1033909

Spare parts

Article	Order number
Ring proximity switch	1014583
• Flow meter DK800	1021842
Bourdon-tube gauge	1014618
Pressure regulator	1020151

Note

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