ATEST GAZ

User Manual

Gas Sampling Point

Product code: PW-094-A

POD-039-ENG R02

ATEST GAZ

Reliable and Innovative Gas Detection & Safety Systems

We design, manufacture, implement and support:
Systems for Monitoring, Detection and Reduction of gas hazards

We invite you to familiarize yourself with our offer on **www.atestgaz.pl**

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Remarks and reservations

- Connection and operation of the device is allowed only after reading and understanding the contents of this document. Keep User Manual with the device for future use.
- The manufacturer shall not be held responsible for any errors, damage or defects caused by improper selection of suitable devices or cables, errors in installation of equipment or any misuse due to failure to understand the document content.
- Unauthorised repairs and modifications of the device are not allowed. The manufacturer shall discard any responsibility for consequences of such actions.
- Exposure of the device to the impact of excessive mechanical, electric or environmental factors may lead to damage of the device.
- Operation of damaged or incomplete devices in not allowed.
- Engineering of a gas safety system for any specific facilities to be safeguarded may need consideration of other requirements during the entire lifetime of the product.
- Use of unauthorized spare parts different from the ones listed in Table 3 is strictly forbidden.

How to use this manual?

- Important fragments of the text are highlighted in the following way:

Pay extreme attention to information provided in such framed boxes.

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1 Preliminary information

The Gas Sampling Point is a device that enables taking samples of ambient air from the monitored surrounding atmosphere with appropriate preparation of samples for further processing.

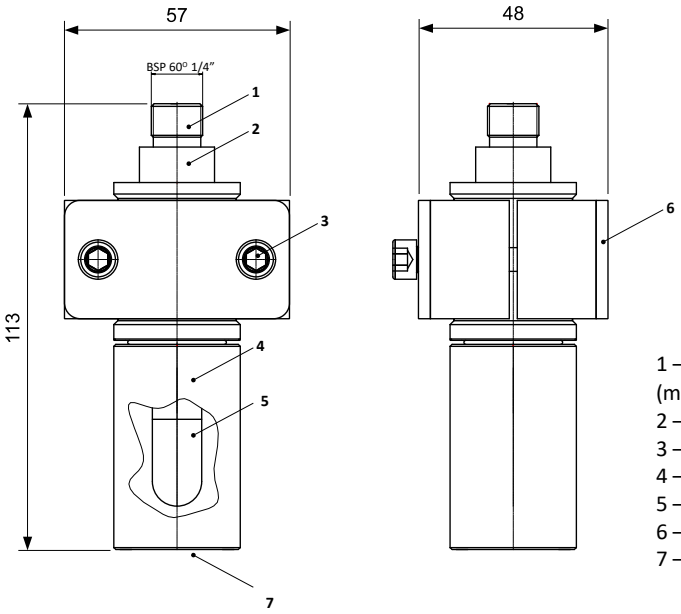
Use of such units enables reliable safeguarding of gas lines connected to the gas detector against penetration of contaminations and against detrimental environmental conditions.

2 Safety

When performing repair, building and maintenance works, secure the device in a proper way.

Do not allow the device to flood.

3 Description of the construction



1 – device body with a port for gas line connection (male thread BSP 60 ¼")
2 – flat planes for a 19 mm flat wrench
3 – fixing bolts
4 – shield
5 – gas filter with a sealing ring
6 – holding clamp with an installation bracket
7 – gas intake

Figure 1: The construction of the device and its dimensions

The Gas Sampling Point comprises a body terminated with a port for gas line connection – male thread BSP 60° ¼" (1), a gas filter with a sealing ring (5), a shield (4), a holding clamp with an installation bracket (6) and fixing bolts (3).

It is possible to make the device without a filter.

4 Input-output interfaces

4.1 Pneumatic interface

The Gas Sampling Point is provided with a gas port with a male thread BSP 60° 1/4" that enable connection of the point to a gas line.

Gas samples are taken from the surrounding atmosphere via a gas intake (figure 1, (7)).

5 Life cycle

5.1 Transport

The device should be transported in the same way as new devices of this type. If the original box or another protection (e.g. corks) is not available, it is necessary to secure the device against shocks, vibrations and moisture on one's own, using other equivalent methods.

5.2 Installation

The Gas Sampling Point is mounted by means of the holding clamp (6) as shown in Figure 1.

Installation bracket of the clamp (6) should be permanently fixed (welded) at the location of gas sampling (as specified by a designer).

The Gas Sampling Point is mounted in position by means of fixing bolts (3).

The unit shall be always mounted with all protection means in place.

The Gas Sampling Point shall be connected to a flexible hose with the use of a female joint with the thread BSP 60° 1/4”.

5.3 Start-up

Prior to start the gas monitoring system up the safety cap must be removed from the Gas Sampling Point.

5.4 Periodical operations

The Gas Sampling Point is equipped with a gas filter that requires periodic replacement depending on the operating conditions of the device.

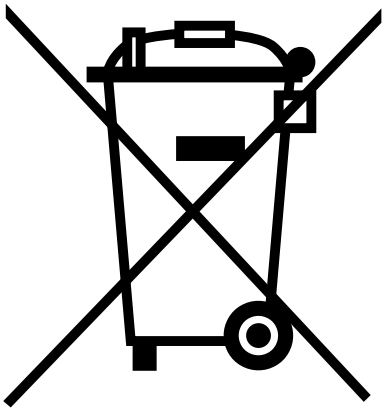
5.4.1 Replacement of consumables

Details of the lifetime of consumables can be found in Table 1.

To replace the filter (5) unscrew the shield (4), screw out the worn filter and replace it with a new one.

Prior to reinstallation of the shield (4) check whether the sealing ring is correctly positioned. Worn or damaged sealing rings must be replaced with new ones.

5.5 Utilization



This symbol on a product or on its packaging indicates that the product must not be disposed of with other household waste. Instead, it is the user's responsibility to ensure disposal of waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The proper recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. Information about relevant designated collection points can be obtained from the Local Authority, waste disposal companies and in the place of purchase. The equipment can also be returned to the manufacturer.

6 Technical specification

Environment • Ambient temperatures • Humidity • Pressure	 -30 – 50^{O}C 0 – 99% long term 0 – 100% short term 860 – 1050 ± 10% hPa
Detected substance	Non-reactive gases
The speed of the gas flow	0,1 – 3,5 dm^3/min
IP	IP 54
Dimension	See Figure 1
Enclosure material	SS316, polypropylene, NBR, SI
Weight	0,55 kg
Mandatory periodic inspection	Every 12 months (if the device is operated in a heavily polluted environment, the frequency of inspections will change)
Lifetime of consumables	See Table 1
Mounting	See 5.2

Table 1: Technical specification

7 List of consumables

No.	Consumables	Lifetime	Manufacturer	Product code
{1}	Filter	2 years	Pneumat	7100 1/8
{2}	Filter gasket	2 years	-	Oring 7 x 2, 70NBR
{3}	Cover gasket	Depends on ambient conditions	-	Oring 21,3 x 2,4, 70SI

Table 2: List of consumables

8 List of accessories

Product code	Description
Essentra Components 496731	Cap Type EZE

Table 3: List of accessories

9 Product marking

Product code	Device
PW-094-A	Gas Sampling Point
PW-094-B	Gas Sampling Point (version without filter)

Table 4: Method of product's marking

Notes

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