

EN

→ www.docuthek.com

Operating instructions

Optical detector kit smart seal P3S



Contents

Operating instructions	
Optical detector for Smart Seal P3S	1
Contents	1
Changes	1
Safety	1
Checking the usage	2
Operating the detector	2
Maintenance	3
Spare parts	4
Technical data	4
Identification	4
Logistics	4
Contact	4

Changes

First edition

Safety

Please read and keep in a safe place



Please read through these instructions carefully before installing or operating. Following the installation, pass the instructions on to the operator. This unit must be used and operated in accordance with the regulations and standards in force. These instructions can also be found at www.docuthek.com.

Explanation of symbols

• **1**, **2**, **3** ... = Action

▷ = Instruction

Liability

We will not be held liable for damage resulting from non-observance of the instruction and non-compliant use.

Safety instructions

Information that is relevant for safety is indicated in the instructions as follows:



DANGER

Indicates potentially fatal situations.



WARNING

Indicates possible danger to life and limb.



CAUTION

Indicates possible material damage.

All interventions may only be carried out by qualified technicians. Electrical interventions may only be carried out by qualified electricians.

Conversion, spare parts

All technical changes are prohibited. Only use OEM or approved spare parts.

Checking the usage

Optical detector for checking the originality and integrity of Elster Smart Seal P3S which contains a Secure Marker, the presence of which can be verified using the optical detector. The Smart Seal P3S is available for all Elster diaphragm gas meters BK-G1.6 to BK-G100.

▷ Identifying feature: P3S is always grey.

The function of the detector is only guaranteed when used under the specified operating conditions – see page 4 (Technical data). Any other use is considered as non-compliant.

Part designations



- 1** On/ off switch
- 2** Control light (green diode)
- 3** Readout window
- 4** Safety switch



- 5** Protective case

Operating the detector

Product identification



! WARNING

Please observe the following to ensure that neither persons nor the detector are damaged during operation:

- Remember the safety instructions.
- Keep proper distance between the eyes and the readout window.

Technical safety measures

The optical detector works with a laser beam.

The laser beam should always be directed upon absorbing or diffuse reflecting material.

Avoid specular reflection.

Do not stare into the laser beam. Staring directly into the beam or the reflected beam can cause permanent eye damage.

The optical detector has to be permanently labeled with a laser warning sign and the label according to DIN EN 60825-1, incl. "invisible laser beam".



Hazards for persons and environment

The laser beam is always harmful to the eyes and in special cases also harmful to the human skin. Laser radiation might ignite combustible material and gases. At a distance of more than 25 cm from the laser the output is lower than the maximum allowance of radiation.

Organizational safety measures

Only trained personnel are allowed to operate the optical detector.

All persons in close proximity to the optical detector have to be informed about the safety measures.

The area where the optical detector is operated has to be marked with a laser warning sign. The optical detector has to be stored in a secure, locked place.

During operation, the optical detector has to be placed firmly on the Smart Seal P3S.

Minimum distance to the readout window is 5 cm (2 inches). Never look directly into the laser beam.

! WARNING



**INVISIBLE
LASER BEAM**
Avoid eye exposure
Laser Class 3B

Personal safety equipment

Protective clothing:	Not required
Ear protection:	Not required
Eye protection:	Not required if used according to instructions
Skin protection:	Not required if used according to instructions
Respiratory protection:	Not required

Actions in case of emergency

Inform your superior as well as the responsible person for laser safety, if necessary, call for medical assistance.

Always follow operating instructions.

In case of irradiation of the eye, seek medical help immediately.

- ▷ The optical detector is already equipped with batteries on delivery.

1 Switch on the optical detector by pressing the on/ off switch.

2 Push the optical detector onto the Smart Seal P3S to activate the laser.

- ▷ The safety switch prevents incorrect use and potential harm to the eyes due to the invisible laser beam.

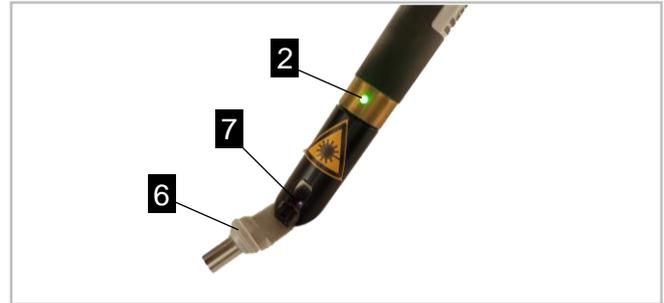
- ▷ The green control light of the optical detector indicates that the detector works properly.

- ▷ If the control light is off although the optical detector is pushed on the Smart Seal P3S, check and exchange the batteries of the optical detector.

- ▷ Avoid direct sunlight, provide shade if necessary.

3 Look in the readout window of the optical detector to observe the laser response on the surface of the Smart Seal P3S, while pushing the optical detector onto the Smart Seal P3S.

- ▷ The laser response is a green point visible on the surface of the Smart Seal P3S, in case the secure marker is being detected. This means, the tested seal is the original Elster Smart Seal P3S.



2 Green control light: the detector works properly.

6 Smart Seal P3S (grey)

7 Green laser response (visible on Smart Seal P3S looking through the readout window)

- ▷ The secure marker is being detected; the tested seal is the original Elster Smart Seal P3S.

- ▷ In case of a faked or copied seal, which looks like Smart Seal P3S, there will be no laser response.

4 Switch off the optical detector by pressing the on/ off switch.

Maintenance

The optical detector is maintenance-free.

- ▷ If the control light is off although the optical detector is pushed on the Smart Seal P3S, the batteries of the optical detector are probably empty and need to be exchanged.

Exchange batteries

1 Unscrew detector, no tools required.



2 Remove all batteries and insert 2 new batteries, see page 4 (Spare parts) for battery specification.



3 Screw detector together.

Troubleshooting

For checking the originality and integrity of Elster Smart Seal P3S with the optical detector avoid direct sunlight, provide shade if necessary.

Clean the Smart Seal P3S surface only with a damp cloth.

If the optical detector does not work properly, please contact our sales representative and return the optical detector to us. Repair of the optical detector shall only be carried out by trained personnel.

Spare parts

Battery (standard commercial)

2 alkaline batteries AAA (micro), 1,5 Volt LR03

Technical data

WARNING

Please observe the following to ensure that neither persons nor the detector are damaged during operation:

- Remember the safety instructions.
- Keep proper distance between the eyes and the readout window.

CAUTION

Remove or replace empty batteries as soon as possible. An exhausted empty battery may leak, namely corrosive electrolyte will leak out, causing damage to and malfunction of the detector.



Laser

Laser class: 3B Type: IR (invisible beam)

Wavelength: 980 nm Power: 30 mW

Battery

2 alkaline batteries AAA (micro), 1,5 Volt LR03

Operating temperature

Optical detector should be operated at temperature greater than 20°C/ 65°F.

Protection and storage

Avoid moisture.

The optical detector is not waterproof.

When not in use, the optical detector shall be switched off, see page 2 (Operating the detector).

The optical detector shall be stored in the protective case.

Identification

Optical detector

Order No.: 72910507, "optical detector kit smart seal P3S".

Smart Seal P3S

For use with Elster diaphragm gas meters (BK series).

Order No.: 72448440, "Seal P3S with marking".

EU declaration of conformity

We declare as manufacturer: Products labelled accordingly meet the requirements of the following directives and standards: 2014/30/EU – EMV/ EMC, 2011/65/EU – RoHS. Elster GmbH

Declaration of conformity can be downloaded from the following link: www.docuthek.com → [Elster-Instromet](#) → [Products](#) → [Gas measuring devices](#) → [Diaphragm meters](#)

Logistics

Transport

Optical detector shall be transported in the protective case.

Storage

Optical detector shall be stored in the protective case in a secure, locked place. Store dry and tightly closed.

Disposal

Optical detector contains electronic components.

Batteries are to be disposed of separately.

WEEE Directive 2012/19/EU – Waste Electrical and Electronic Equipment Directive



At the end of the product life, dispose the packaging and product in a corresponding recycling center. Do not dispose of the optical detector with the usual domestic refuse. Do not burn the product.

Contact

Honeywell

Germany

Elster GmbH

Strotheweg 1

49504 Lotte

Tel. +49 541 1214-0

Fax +49 541 1214-370

customerfirst@honeywell.com

www.smartenergy.honeywell.com

We reserve the right to make technical modifications in the interests of progress.