

Documentation Fire Extinguishing System

POLYSIUS BAZIFA CSP000087 / 88 / 89

F-7 Operating Instructions

M414.65E	operating instruction lock off unit
M414.83E	operating instruction step motor delay device SMV-1
M414.05E	important information for your safety
M414.79E	operating instruction INERGEN 200bar system 4

Important Information for Your Safety



2



The fire alarm signal will sound, and ...

3



... the evacuation period starts now. It lasts _____ seconds.

4



Leave this area immediately via the marked escape routes. But do not rush!

5



When the evacuation period ends this area will be flooded with INERGEN®. The flooding period lasts about 5 minutes.

6



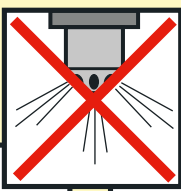


Do not enter areas which have been flooded with INERGEN®!
Danger of suffocation!
Important Note: During fires poisonous gases can develop. The area should stay shut off for 10–30 minutes.

7



No-one must enter this area again until the responsible member of staff has given the authorisation.



The flooding mechanism must be blocked:

- ▶ if work is carried out in this area which might cause the fire extinguishing system to be triggered unintentionally; or
- ▶ if work is carried out in this area which makes it impossible to leave within the evacuation period.

In these cases, please inform the responsible member of your staff. He will see that the necessary action is taken.

The responsible member of staff is: _____

His deputy is: _____

OPERATING INSTRUCTIONS EXTINGUISHING SYSTEM

LOCK OFF UNIT

Attention!

The setting of the lock off unit at the section valve or at the cylinder unit prevents the gas discharge into the extinguishing area. It does not prevent the alarm in the extinguishing area and the control of the release mechanism when a fire is detected.

Before the lock off unit is re-set, it is absolutely essential to observe the following precautions:

A	No fire has been detected, and no actuation signal for the extinguishing system is present.
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All the actuation components are in a state of normal operational readiness.

If you have made certain that this is true, you can reset the blocking mechanism. The extinguishing system is now restored to full operational readiness.

B	A fire has been detected and an actuation signal for the extinguishing system has been stored in the meantime.
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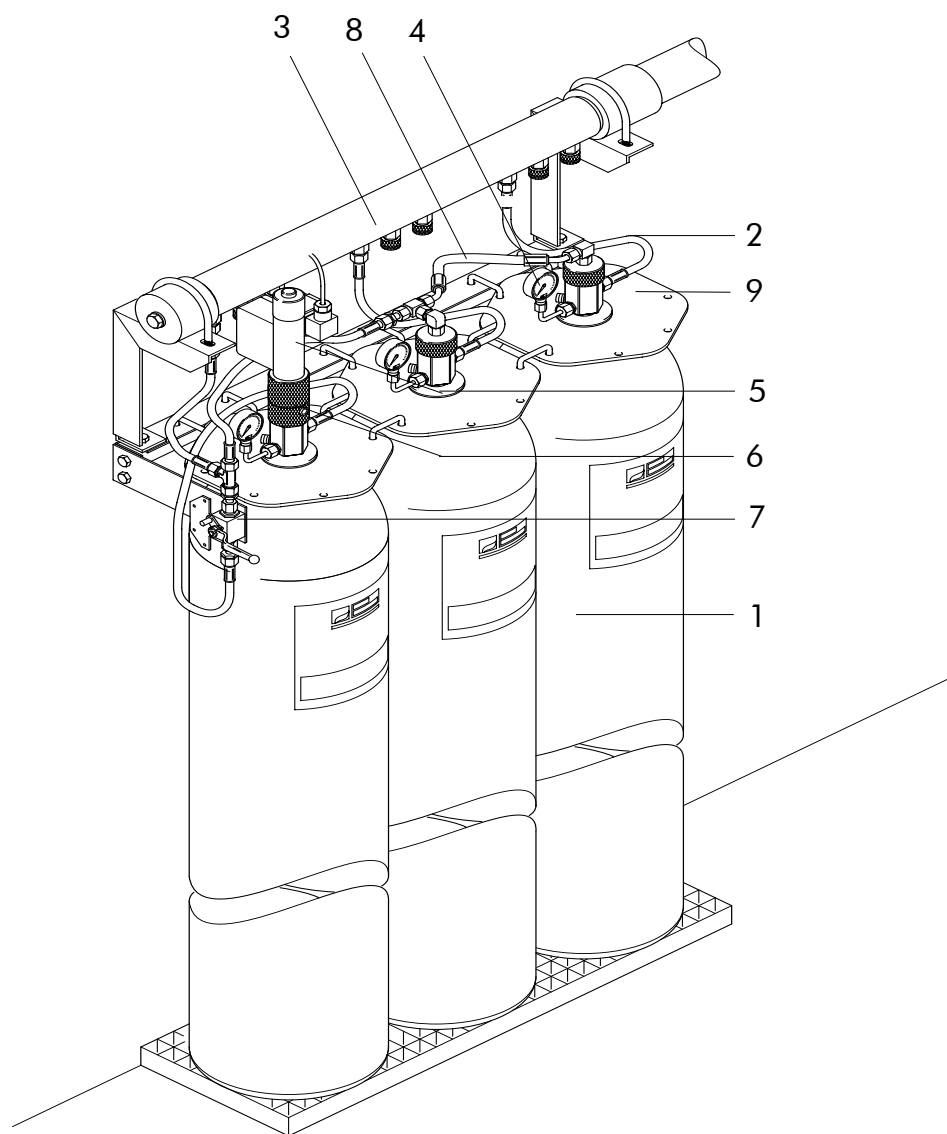
A discharge may start immediately if you re-set the lock off unit.

If a discharge is intended, first make certain that **everyone** has left the extinguishing area. Only re-set the lock off unit when this has been done.

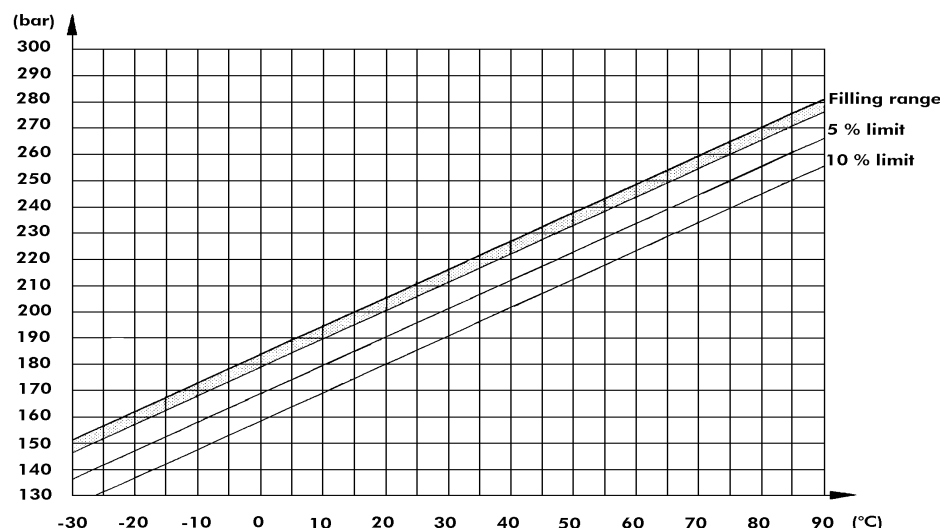
If **no** discharge takes place, inform our customer service department. They will return the system to operational readiness, and will discharge any gas trapped in the pipe. Until this is done, the system remains blocked.



OPERATING INSTRUCTIONS: INERGEN®-200 BAR SYSTEM System 4



Pressure-vs.Temperature



In the event of a fire

1. The **INERGEN® system** responds fully automatically. However, it may also be activated by hand, using a push-button.
2. An alarm sounds in the protected room and the staff leave the extinguishing section.
3. The content of the opened steel cylinders is blown off without leaving any residue. The cylinder valves close again automatically.

After release

1. Call for TOTAL WALTHER customer service.
2. The flooded room should remain closed for about 10 to 20 minutes. It may only be entered again after it has been thoroughly ventilated and after clearance has been given by an authorised person.
3. The emptied **INERGEN® cylinders (1)** must be removed, replaced by reserve cylinders (if any are available) and refilling must be arranged.
4. After each release of the **INERGEN® system**, the entire system must be inspected and made operational by the TOTAL WALTHER expert. (Regulations of the Employers' Liability Insurance Association).

Important:

Install any reserve cylinders which are available immediately, so that the interruption to fire protection does not last too long! Report every fire incident and every interruption of the fire protection to your insurer!

Handling of cylinders is allowed only with valve protection cap on.

Lock-off

- If installation work has to be carried out in the extinguishing section, and if it could result in an unintentional activation of the extinguishing system or could make it impossible for people to leave the rooms within the preliminary warning period, the extinguishing system must be blocked. To do this, move the **Lock-off unit (7)** into the "Blocked" position.
- Blocking must only be carried out by a person who is authorised to do so, and who is simultaneously responsible for ensuring that fire protection is provided by other means.
- **Before resetting of the lock-off unit follow the procedure on operating instruction M414.65E.**

Weekly tests and inspections

Pressure of the **INERGEN® cylinders (1)**.

Operational readiness of the **Lock-off unit (7)**.

Legend

- | | | | |
|---|---|---|---|
| 1 | INERGEN® cylinders | 6 | Release head II |
| 2 | Connection hose DN 10 | 7 | Lock-off unit |
| 3 | INERGEN® manifold | 8 | Actuation line |
| 4 | Pressure indicator DKE-4
alternatively: pressure monitoring device | 9 | Cylinder brackets / securing components |
| 5 | Electric actuator, SF-2 | | |

3. Operational readiness of the electrical power supply.
4. In the extinguishing section:
 - no inadmissible openings
 - self-closing openings are not prevented from functioning.
 - warning notices are present on both sides of the doors.

Monthly tests and inspections:

1. Fire detection components, alarm equipment and nozzles are neither contaminated nor damaged.

Quarterly tests and inspections:

1. Function test of the entire activation and alarming system by the TOTAL WALTHER expert. For this purpose, the **Electric actuators (5)** of the **INERGEN® cylinders (1)** must be dismantled. To ensure safety, activate the **Lock-off unit (7)**.
2. Test the electrical detection and control system by means of the manual activation button(s), fire detector(s) and fire detection elements.

Annual tests and inspections:

(Regulations of the Employers' Liability Insurance Association)

1. Function test of the entire activation and alarming system by the TOTAL WALTHER expert. For this purpose, the **Electric actuators (5)** of the **INERGEN® cylinders (1)** must be dismantled. To ensure safety, activate the **Lock-off unit (7)**.
2. Test the electrical detection and control system by means of the manual activation button(s), fire detector(s) and fire detection elements.

Caution!

Before screwing the Electric actuator (5) onto the cylinder valve after the tests, it is essential to tension the Electric actuator. For this purpose, use the tensioning device as described in Technical Datasheet 5-425-01 or 5-425-02, as appropriate.

Screwing on the Electric actuator which has not been tensioned can lead to the destruction of the actuation disc in the valve, which in turn will activate the system.

Tests and inspections every 2 years:

(Regulations of the Employers' Liability Insurance Association)

Have the entire system examined by an independent expert.

TEST LABELS

Commissioning



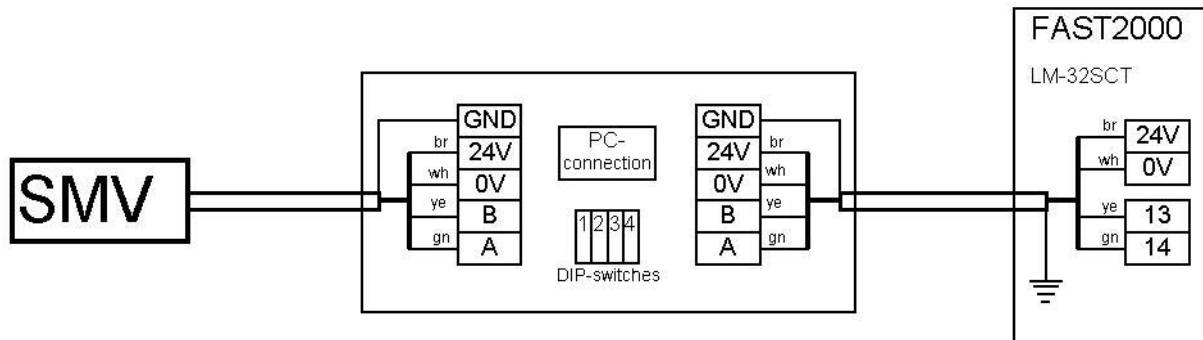
Next Inspection by
TOTAL WALTHER Expert



Operating Instructions: SMV-1 Step Motor Delay Device

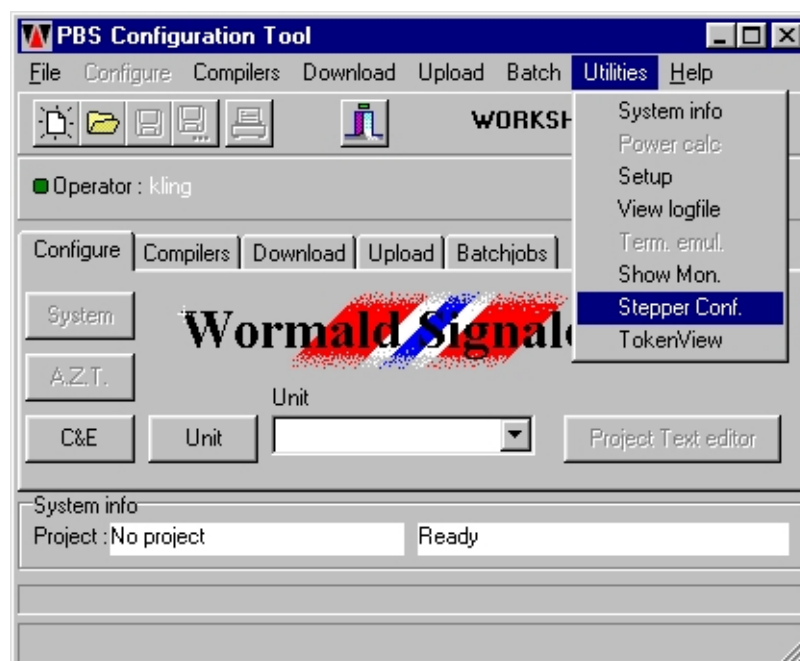
1. Commissioning

- Connect step motor SMV-1 as per the connection scheme in the PSS-1 (programming interface) and connect the PSS-1 to the panel.

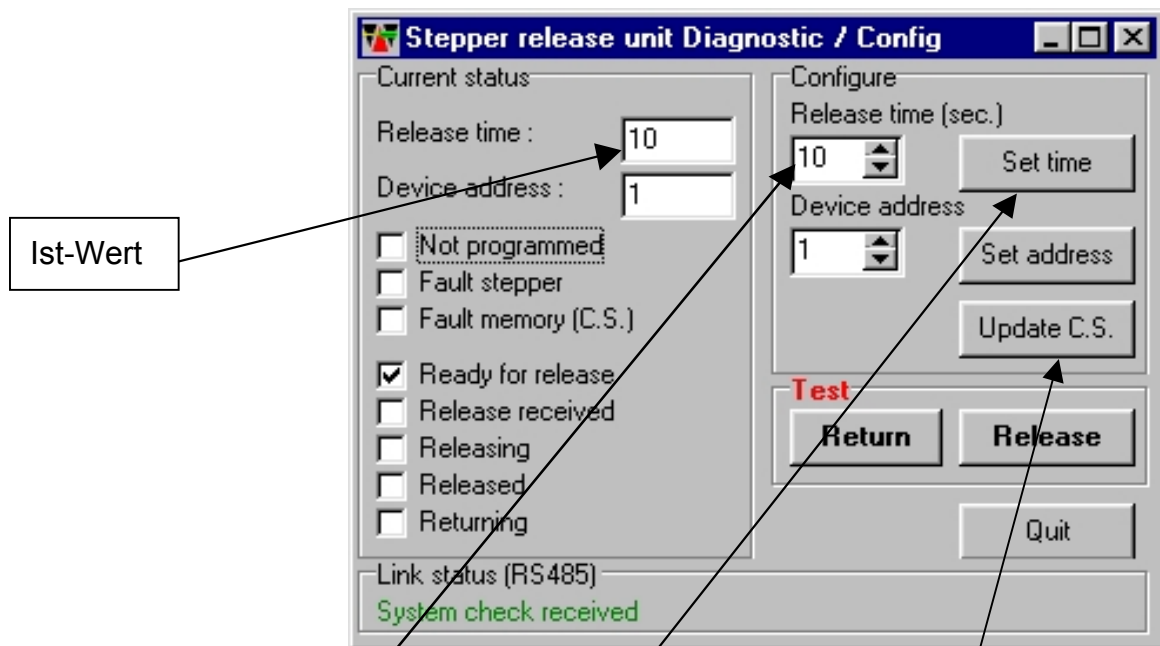


1a. Programming

- The step motor delay is pre-set to a delay time of 30 seconds. A delay time which varies from this period is programmed as follows:
- A percentage correction factor may be indicated on the nameplate. This correction factor must be included in the programming.
The setpoint time is to be increased or reduced by this factor.
- Using the RS 485 adapter, connect the computer to the PSS-1.
- Start the PCT program on the PC, go to the "Utilities" sub-menu and select "Stepper Configuration".



- After communication has been established, the programmed actual values are displayed.



- Set the time you want, transmit it to the SMV-1 and carry out a checksum update. The „Device Address“ value remains unchanged.
- You can read the new values in the program window.

1b. Function check

- **Caution:** remove all electrical release devices from the valves, otherwise the extinguishing gas may be discharged!
- A release criterion (detector, manual release device) must be initiated for a release. Measure the delay time with a stopwatch (from when the motor starts up until the impact spring is released).

1c. Resetting the step motor

- reset the panel
(as per the Operating Instructions for the FAST 2000).
- clamp the step motor with the clamping device that is supplied with the product (see also Technical Datasheet 5-425-10).
After 1-2 seconds, the motor will start and the SMV-1 will be moved back to its standby position. The clamping device can already removed during the reverse movement (3-4 seconds after starting).
- “Arm” the system by fitting the SMV-1 on the pilot valve (release head).

2. Maintenance

- inform the operator.
- remove the SMV-1 from the control cylinder or pilot cylinder.
- remove all other electrical release devices from the valves.
- Initiate the release criterion (detector, manual release device) and use a stopwatch to measure the delay time; compare this with the system-specific delay time.
- Recommission as described in section 1c.