

## THE ION-LINE SAFETY CONCEPT

	INCIDENTS	SYSTEM REACTIONS	SUBSEQUENT MEASURES
WARNING MESSAGE	<p>If the interior temperature increases <b>above 50 °C</b>, the warning/fire suppression system triggers a warning message to the central control office.</p> <p><b>Possible causes:</b></p> <ul style="list-style-type: none"> <li>• Temperature build-up due to battery charging processes</li> <li>• Ventilation system failure</li> </ul>	<p><b>Visual and acoustic signal output</b></p> <ul style="list-style-type: none"> <li>• The warning light (red LED) is activated and permanently illuminated, the function indicator (green LED) goes out</li> <li>• Alarm triggers with slow tone interval</li> </ul> <p><b>The potential-free alarm switch</b></p> <ul style="list-style-type: none"> <li>• is activated, the alarm is transmitted to the building services management system</li> </ul>	<p>The warning message does not indicate any direct danger. Internal qualified personnel can immediately inspect the system to take any further necessary measures. If the interior temperature decreases below 50 °C once again, the system returns to normal operations, and the visual and acoustic signals are turned off.</p>
ALARM LEVEL 1	<p><b>Alarm level 1</b> is triggered when smoke begins to form in the cabinet, as soon as the smoke detector is activated.</p> <p><b>Possible causes:</b></p> <ul style="list-style-type: none"> <li>• Smoke detected without simultaneous temperature increase</li> </ul>	<p><b>Visual and acoustic signal output</b></p> <ul style="list-style-type: none"> <li>• The warning light (red LED) is activated and permanently illuminated, the function indicator (green LED) goes out</li> <li>• Alarm triggers with medium tone interval</li> </ul> <p><b>The potential-free alarm switch</b></p> <ul style="list-style-type: none"> <li>• is activated, the alarm is transmitted to the building services management system</li> </ul>	<p>Technicians (such as from the fire department) can immediately inspect the system to take any further necessary measures.</p> <p>If the smoke detector does not detect any further smoke production inside the cabinet, the system can be returned to normal operations by briefly unplugging it from mains voltage.</p>
ALARM LEVEL 2	<p><b>Alarm level 2</b> is triggered when the smoke detector is already activated (alarm level 1) and the temperature sensor registers an interior temperature <b>greater than 70 °C</b></p> <p><b>Possible causes:</b></p> <ul style="list-style-type: none"> <li>• Outbreak of fire</li> </ul>	<p><b>The visual and acoustic signals change to</b></p> <ul style="list-style-type: none"> <li>• warning light (red LED) switches from continuous illumination to flashing light</li> <li>• the alarm switches to a fast tone interval</li> </ul> <p><b>In the BATTERY CHARGE model, at the same time</b></p> <ul style="list-style-type: none"> <li>• the technical ventilation is also switched off</li> <li>• power to the outlet strip is turned off</li> </ul> <p><b>The aerosol fire suppression unit</b></p> <ul style="list-style-type: none"> <li>• triggers</li> </ul>	<p>The overall system can then only be assessed by an authorised asecos service technician and reset to normal operation if possible. At least the fire suppression unit and smoke detector must be exchanged before doing so.</p>

### EXPERT TIP: React quickly in case of a fire

With an integrated 3-stage warning/fire suppression system, the **BATTERY STORE PRO** and **BATTERY CHARGE** cabinets offer a high level of safety for storing and charging lithium-ion batteries. Any fires which occur inside the cabinet are detected promptly, and employees can be evacuated immediately. The warning/fire suppression system is also connected to a permanently staffed building services management or fire alarm central station, ensuring that trained rescue personnel

- ▶ can be alarmed quickly and be on site in a short amount of time
- ▶ can initiate further measures immediately after completing an initial assessment of the situation
- ▶ can transport the cabinet out of the building, for instance. This prevents further major damage to the building, and protects against personal injury.

The cabinets are equipped with a transport base to ensure fast transportation. Cabinets are auto-

matically unplugged from mains supply during transportation. Once the cabinet is outside of the building at a safe location, rescue personnel can identify any further measures necessary.

