

D-System: Warning and maintenance instructions

Principle

Read and observe all safety notes and instructions. Failure to comply with safety information and instructions may result in electric shock, fire and/or serious injury.

The electrical equipment of the system complies with the latest state of the art. The operator is responsible for compliance with the applicable accident prevention regulations.

The system may only be used:

- when in technically perfect condition
- in accordance with accident prevention regulations
- as intended

Any faults, particularly those affecting safety, must be remedied immediately by qualified personnel.

→ The system must be shut down until the fault has been remedied.



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Intended use

hotset's mobile D-System is a highly flexible and easy-to-use measuring device for in-situ analysis of the energy balance of process water cycles. Wherever water circulates as a functional medium, this enables rapid checking and visualization of flow rate, temperature progression and pressure differences. Some of the applications of the D-System are troubleshooting, fine-tuning of fluid power processes, or monitoring in the context of quality assurance. "Water is utilized for industrial purposes as a coolant and heating medium, as a transport and hydraulic fluid, as an operating and drive medium, and even as a fuel component. As a process optimization tool or mobile service tool, our D-System can therefore provide valuable services in many industries.

Make sure that the medium is clean in order to avoid deposits such as lime, rust and dirt in the measuring module. The water flowing through should be free of suspended particles and meet the following requirements:

	Min. – Max.	Unit
pH value	6.5 – 9.5	-
Solid substances	free	mg/l
Electrical conductivity (20 °C)	200 - 2000	µS/cm
Fe / Cu	0 - 1	mg/l
Total hardness	5 - 12	°dH

Using compressed air to clean or empty the measuring module can damage the measuring components. Cleaning brushes or similar objects should also not be used to remove any deposits. The individual components can only be cleaned carefully with a cloth once the measuring module has been disassembled.

We recommend that you return the device to Hotset GmbH for maintenance and servicing.

Please contact us for this purpose:

Hotset GmbH
Hueckstraße 16
58511 Lüdenscheid / Germany

Office: +49 2351 4302-0
vertrieb@hotset.com

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Measuring module

Warning

The measuring module weighs more than 5 kg and can cause injuries if transported incorrectly (dropping).

The water connection must be carried out by qualified personnel and then checked for leaks.

Depending on the application temperature, the surface may become hot. The maximum application temperature/pressure can be found on the type plate of the measuring module and must not be exceeded.

When emptying the measuring module with the use of compressed air, the flow velocities of the flow meter must not be exceeded. Exceeding them will destroy the flow sensor.



Maintenance

The measuring module must be checked for leaks every 500 operating hours. To do this, the system must be pressurized to at least 10 bar.

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Display

Warning

Only operate the display with the power supply unit included in the scope of delivery. Only connect to the measuring module using the connection cable included in the scope of delivery.

The contents of lithium polymer battery cells are generally flammable under certain conditions.

- Do not open the battery
- Never remove the battery from the display case
- Protect the battery from heat, fire, and immersion in water
- Do not store or operate the battery near hot or flammable objects
- Do not place the power plug or display near flammable materials
- Only charge the battery when it is dry and in a fire-safe location
- Only charge the battery with the supplied hotset power plug
- The battery must not be charged unattended
- The battery must not be subjected to mechanical stress
- Vapors may escape if the rechargeable battery is damaged or used improperly. Supply fresh air and consult a doctor if you experience any discomfort.

Technical data:

Type	Lithium polymer
Nominal voltage	3.7 V
Nominal capacity	12,000 mA
Energy	45 Wh
Operating temperature	+5...+40 °C
Storage temperature	+2...+50 °C
Permissible charging temperature range	+2...+40 °C



Maintenance and service

If the battery is no longer functional, please contact hotset GmbH.

The battery is subject to the requirements of dangerous goods legislation. When transported by commercial users or third parties (e.g. forwarding agents), special requirements for packaging and marking must be observed. Only ship the display with battery if the battery is undamaged.

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Disposal

Do not dispose of the system in household waste! At the end of its service life, this product may not be disposed of with normal household waste, but must be taken to a collection point for the recycling of electrical and electronic systems.



When disposing of the battery, have the battery disconnected by a qualified electrician. Before disposing of the battery, tape the contacts with adhesive tape. Avoid touching severely damaged batteries with bare hands, as electrolyte may leak out and cause skin irritation. Store the battery in a safe place outdoors.

If necessary, please contact hotset GmbH and we will assist you in disposing of it properly.