

Preliminary Datasheet

Accessory - LGD Compact Heater Kit

Suitable for all LGD Compact Products

1 General Description

Axetris offers the LGD Compact Heater Kit, an accessory for all products of the LGD Compact family (Gen 1, Gen 2 and LGD Compact Ultra).

By maintaining the LGD Compact at a temperature setpoint above ambient and above the dew point of the sample gas, the Heater Kit prevents condensation inside the measurement cell, which could damage the device or degrade its performance.

In addition, stabilizing the module temperature to within ± 1 °C improves measurement stability and reduces background noise.

The kit is optionally available with a universal PID controller (Wachendorff UR32741A). The controller allows fast integration and flexible adjustment of the setpoint to suit application requirements and environmental conditions.

comes (optionally) with a universal controller (PID control) allowing a fast integration and great flexibility to set up the desired temperature, depending on application requirements and environmental conditions.



Figure 1 LGD Compact Heater Kit with the universal controller

Benefits at a Glance:

- Prevents condensation inside the LGD Compact measurement cell
- Improved measurement stability through temperature stabilization
- Ready-to-use kit with minimal integration effort
- Tool-free, residue-free mounting and removal (no adhesive)
- Small physical footprint
- Programmable setpoint over a wide temperature range

2 General Specifications

2.1 Environmental conditions

Parameter	Unit	Value / Range
Usage	-	Interior use
Operating temperature range	°C	0 - 45
Operating humidity	% r.H.	0 ... 95, non-condensing
Storage temperature	°C	-40 ... +80
Storage humidity	% r.H.	0 ... 95, non-condensing

2.2 Mechanical characteristics

Parameter	Unit	Value / Range
Dimensions of heater kit mounted on LGD Compact	mm	Increase the diameter of the Compact module by < 20 mm
Dimensions of controller	mm	35 x 77 x 53 (H x W x L)
Approx. weight	g	<120 for the heater kit w/o controller 120 for the controller

2.3 Electrical characteristics

Version: Heater Kit w/o controller

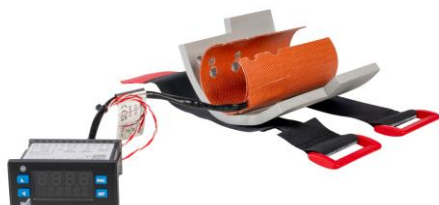
Parameter	Unit	Value / Range
Max. supply voltage	VDC	24
Max. Power	W	30
Heat up time to 45°C from 25°C @ max power 30W	min	≤ 10

Version: Controller

Parameter	Unit	Value / Range
Max. Voltage supply.	VDC	24

3 Configuration Options

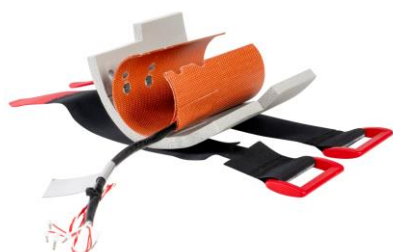
3.1 LGD Compact Heater Kit



Heater Pad with PT100, insulation foam, fixation straps

Controller: Wachendorff UR32741A [UR32741A-2A_EN.pdf](#)

3.2 LGD Compact Heater Kit without controller



Heater Pad with PT100, insulation foam, fixation straps

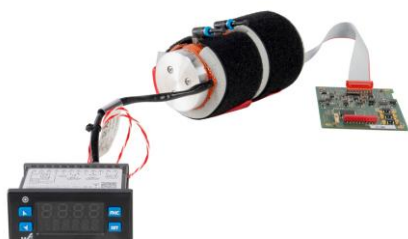
4 LGD Compact Heater Kit - example of mounting

4.1 LGD Compact Heater Kit mounted on LGD Compact Ultra



Heater Kit mounted on a LGD Compact Ultra
Version w/o controller

4.2 LGD Compact Heater mounted on LGD Compact Generation 2

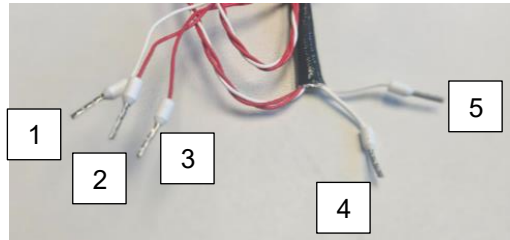


Heater Kit with controller mounted on a LGD Compact
Generation 2 (with main board only)

5 Wiring Assignments

5.1 Heater pad and insulation

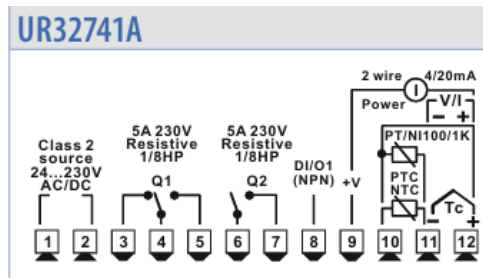
wires description and numbering



Nr.	Name	Description / color
1	PT100	White
2	PT100	Red
3	PT100	Red
4	Power supply	White, short
5	Power supply	White, short

5.2 Controller

Reference: https://www.wachendorff-prozesstechnik.de/fileadmin/wp/filesserver/manual/UR32741A-2A_EN.pdf



Switching power supply 24..230 VAC/ VDC $\pm 15\%$ 50/60 Hz - 5 Watt/VA. Galvanic insulation.

For thermoresistances PT100, Ni100.

- For the three-wire connection use wires with the same section.
- For the two-wire connection short-circuit terminals 10 and 12.
- When shielded cable is used, it should be grounded at one side only.

5.1.i Relay output Q2 (only on UR32741A)

Capacity 5 A / 250 VAC for resistive loads. See chart below.

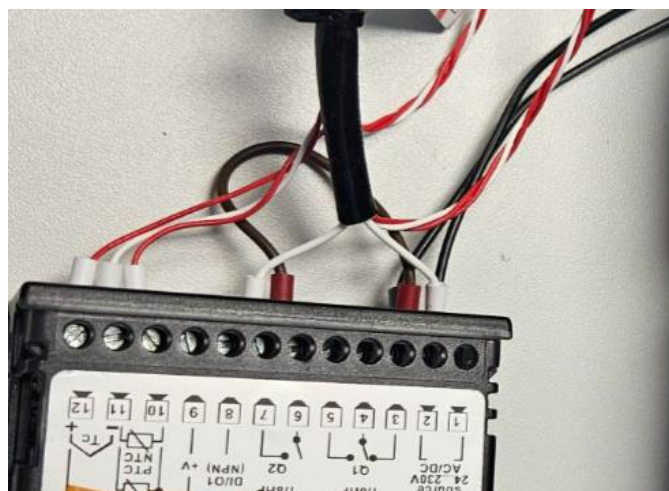


Figure 2 Example of connections to controller

6 Norms and Regulations

Type	Standard / Directive	Limits / description
LGD Compact Heater Kit conformity	REACH	REACH Regulation (EC) 1907/2006
Electronics conformity	RoHS	Directive 2011/65/EU plus (EU) 2015/863
CE Conformity	CE	For Controller UR32741A only

7 Caution

Read all instructions carefully before using the device.

Failure to comply with these instructions may result in product damage or failure.

7.1 Product damage

- Do not use if the product is damaged.
- The product may be irreparably damaged if incorrect electrical connections are made. Refer to the instructions before applying electrical current to the device.
- The product must not be used in damp or wet conditions and is designed for indoor use only.

7.2 Danger of life

- The device must not be used with flammable or explosive gases or mixtures.

8 Important Notice / Disclaimer

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9 Axetris Certifications

Axetris is an ISO 9001:2015 certified company.

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