



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX PTB 23.0008U** Page 1 of 3 Certificate history:
Status: **Current** Issue No: 0
Date of Issue: 2024-01-15
Applicant: **EPHY-MESS GmbH**
Berta-Cramer-Ring 1
65205 Wiesbaden
Germany
Ex Component: Electric band heater type PR-HEI-EX-HEAT-SSH
This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).
Type of Protection: **Increased safety 'eb'**
Marking: Ex eb IIC Gb

Approved for issue on behalf of the IECEX
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Department "Explosion Protection in Energy Technology"

Signature:
(for printed version)

D. Markus

Date:
(for printed version)

15.01.24

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **EPHY-MESS GmbH**
Berta-Cramer-Ring 1
65205 Wiesbaden
Germany

Manufacturing locations: **EPHY-MESS GmbH**
Berta-Cramer-Ring 1
65205 Wiesbaden
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/PTB/ExTR23.0022/00](#)

Quality Assessment Report:

[DE/IBE/QAR15.0001/05](#)



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Ex Component(s) covered by this certificate is described below:

The electric band heater type PR-HEI-EX-HEAT-SSH is a resistance heating element with a protective braid and outer sheath made of silicone. It is suitable for preventing condensation and frost damage at standstill of electric motors, generators and transformers in a cold environment as well as for the keeping temperature constant in tanks, pipes or valves. The dimensions of the standstill heater are designed so small that it can be applied directly to the winding wires. After installation on the winding head, the heating elements can be included in the normal impregnation process and are thus also moisture protected. It is a fixed resistance heating element consisting of 4 parallel heating cables connected in series.

Nomenclatur

PR	HEI	EX	HEAT	SSH
Product	Heat conductor	Ex-approval	Heater	SSH: Electric band heater basic

Technical data

Operating voltage	230 V
max. rated current	1 A
Heating capacity	8 W up to 200 W
Operating temperature*	-60 °C up to +180 °C
Insulation test	(1000+2U _n) +5% V AC
Dielectric strength	min. 2.0 kV AC, 50 Hz / 1Min.

* Sum of max. ambient temperature, self-heating and external heat

SCHEDULE OF LIMITATIONS:

1. When determining the operating temperature (max. +180°C), the max. permissible ambient temperature, self-heating and, if applicable, heat conduction (medium) must be taken into account.
2. The electric band heater PR-HEI-EX-HEAT-SSH shall only be switched on at ambient temperatures of <+10°C and after the motor has cooled down.
3. The electric band heater including the connecting cable shall be installed in motors at the factory in such a way that they are not subjected to any mechanical stress during installation and operation.
4. The supply line (connection cable) must be laid strain-relieved.