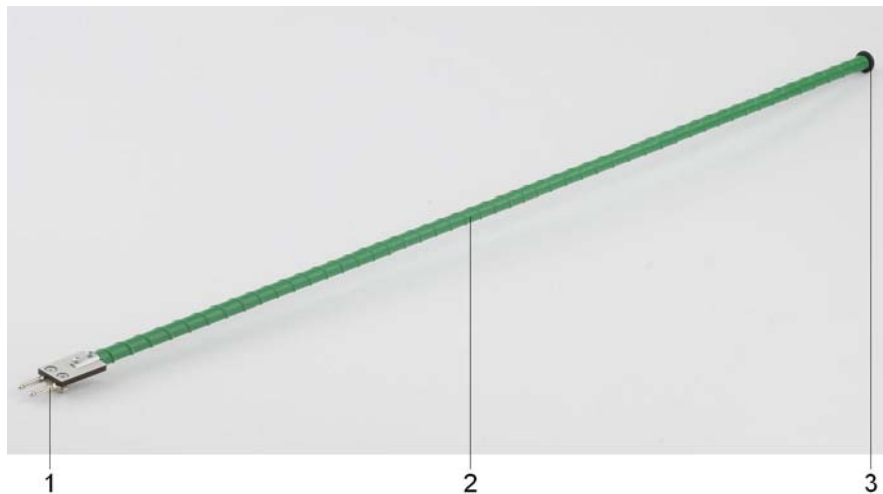


Heating Rod K 1017340

Instruction manual

04/14 MH/ALF



- 1 Connector plug
- 2 Heating rod
- 3 Spacer ring

1. General instructions

Heating rod K is solely designed for use inside Kundt's tube E (1017339).

- Do not leave switched on for more than 30 minutes.
- Do not cover the Kundt's tube while heating is taking place.
- Do not heat the Kundt's tube to any higher than 50°C.
- When heating the tube, make sure that the microphone probe is positioned eccentrically inside the tube. The heating rod may not be directly below the microphone probe (there is a risk of the transducer being damaged by overheating).
- Do not use the heating rod without the spacer ring.
- If it may be deduced that the equipment may no longer be used without risk (e.g. if there is visible damage), it must immediately be taken out of action.

2. Description

Heating rod K is designed to heat air or other gases inside Kundt's tube E (1017339).

3. Technical data

Operating voltage:	max. 12 V DC/AC
Power consumption:	36 W
Impedance of filament:	4 ohms
Connectors:	Pair of 4-mm plugs
Length:	900 mm approx.
Diameter:	11 mm approx.
Weight:	110 g approx.

4. Operation

- Insert heating rod K into the pair of sockets provided in the guide disc on the end cap of Kundt's tube E and carefully slide it into the tube.
- Connect an external power supply to the safety sockets in the end cap.
- Operate the heating rod at a maximum voltage of 12 V and do not leave it on for more than 30 minutes.
- Do not heat the Kundt's tube to any higher than 50°C.
- Monitor the temperature inside the Kundt's tube, e.g. using a pocket digital thermometer which updates every second (1002803) and an immersion sensor NiCr-Ni type K (1002804).

5. Additionally recommended equipment

Kundt's tube E	1017339
Microphone probe, long	1017342
Microphone probe, short	4008308
Microphone box (230 V, 50/60 Hz)	1014520
or	
Microphone box (115 V, 50/60 Hz)	1014521
Pulse box K	1017341
Microsecond counter (230 V, 50/60 Hz)	1017333
or	
Microsecond counter (115 V, 50/60 Hz)	1017334

6. Storage, cleaning and disposal

- Keep the equipment in a clean, dry and dust-free place.
- Before cleaning the equipment, disconnect it from its power supply.
- Use a soft, damp cloth to clean it.
- The packaging should be disposed of at local recycling points.
- Should you need to dispose of the equipment itself, never throw it away in normal domestic waste. Local regulations for the disposal of electrical equipment will apply.

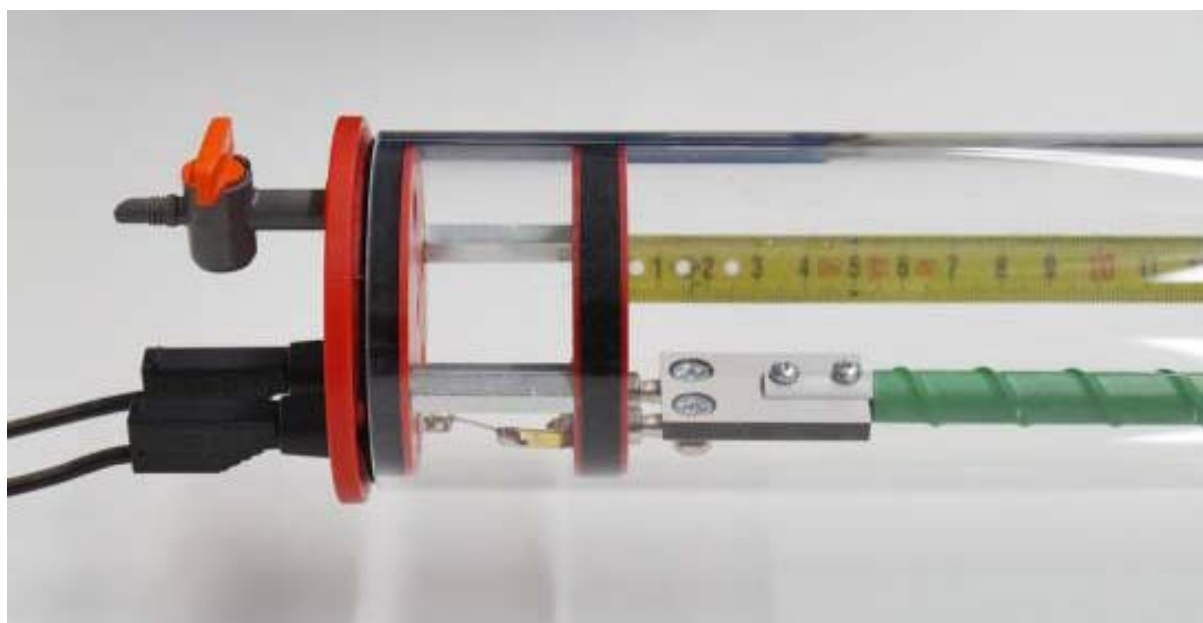
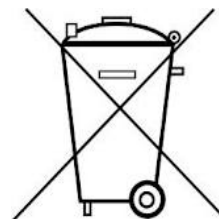


Fig. 1 Connection of heating rod K