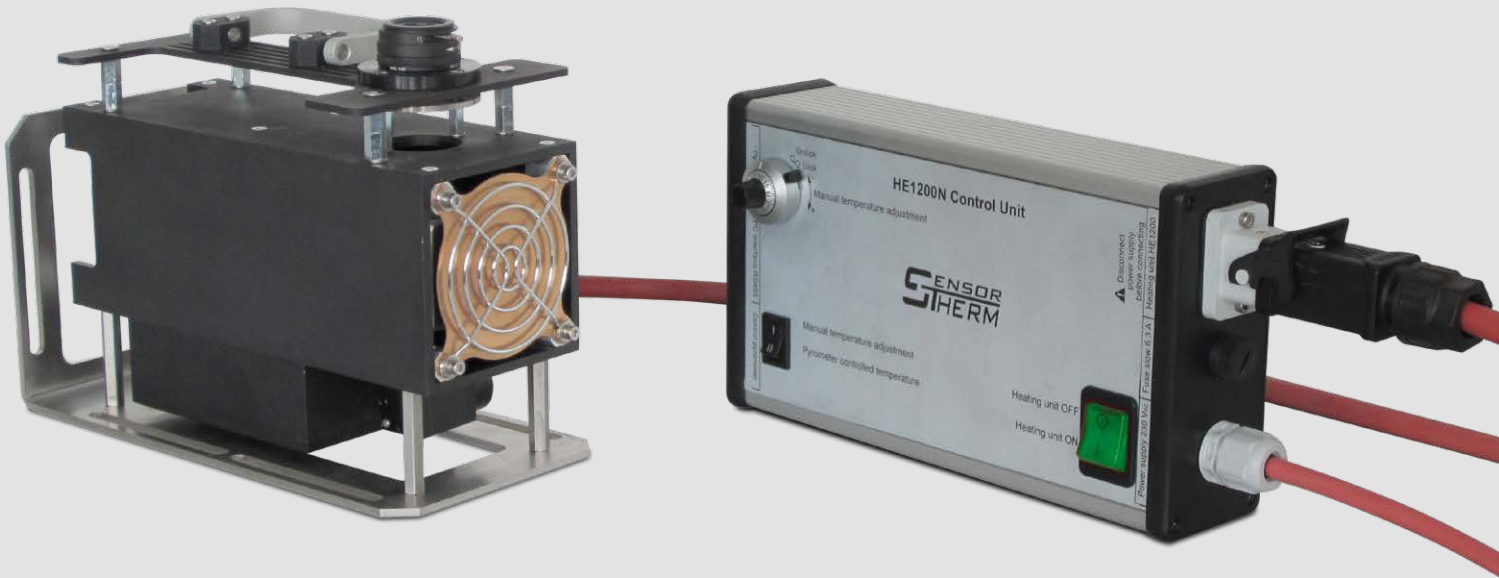


HE1200N

Portable Temperature Source



Extremely small and light temperature source

- Quick check of pyrometers **100 up to ca. 1130 ±70°C**
 - Use in infrared measurements on site without pyrometer removal
 - Determination of optical losses in infrared measurements through windows or lenses and automatic compensation in conjunction with an M3 or H3 pyrometer
 - Common applications: laser hardening, laser welding, additive manufacturing
-
- Target temperature reached in a maximum of 3 minutes
 - Small and light for fast positioning
 - With continuous temperature adjustment between approx. 100 and max. 1200°C or with control pyrometer for high temperature stability
 - Measuring opening with adjustable aperture and support for light power measuring device (power meter)
 - For Sensortherm pyrometers with fast single-point calibration to a target temperature

Ready in only 3 Minutes

The HE120020N is an unsurpassed fast and very small temperature source that can be used to check pyrometers in a few minutes, for example directly at the furnace. Also, optical losses in measurements through windows or lenses can be quickly determined, e.g. when coupling the pyrometer into a processing optics.

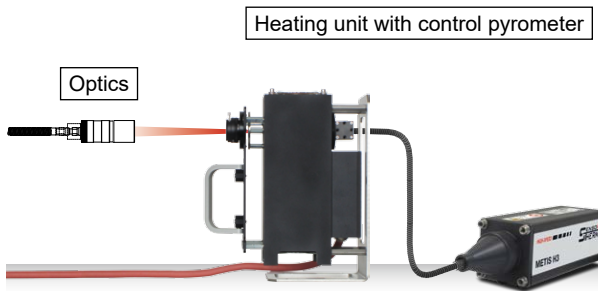
Technical Data

Temperature	Adjustable to approx. 100-1130 \pm 70°C	Pyrometer connections / SUB-D socket	Pyrometer / control pyrometer, each connected to the SUB-D socket for RS485 connection.
Warm-up / cool-down	ca. 3 min / ca. 5 min	Housing	Aluminum, heating unit black anodized
Operating	no continuous operation, only in initial setup mode	Weight	4.3 kg (9.48 lb.)
Measuring area	ca. 10 mm / 0,4"	Ambient temperature	Heating unit: 0–70°C Control unit: 0–40°C
Front meas. opening	Adjustable aperture 0.9-12 mm	Rel. humidity	Non-condensing conditions
Rear meas. opening	12 mm for fiber optics OL12	CE label	According to EU directives
Power supply	230-240 V AC, 800 W max.		
Connection cable	2 m power supply cable, 2 m connection cable to heating unit		

Application

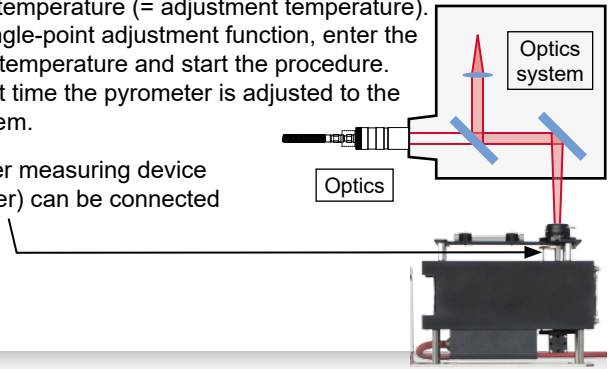
Comparison measurement

- Heating unit with control pyrometer for quick comparison measurement on site at the plant.
Advantage: it is not necessary to remove time-consuming mounted optical fibers and optics.



Measurement with single-point adjustment

- Use METIS M3 or H3 pyrometer, connect to PC and start standard software *SensorTools*.
- Align the HE1200N to the pyrometer's measuring point and heat to application temperature (= adjustment temperature).
- Start the single-point adjustment function, enter the adjustment temperature and start the procedure.
- After a short time the pyrometer is adjusted to the optical system.
- A light power measuring device (power meter) can be connected via a slot.



Reference Numbers

HE1200N	HE1200N consisting of control and heating unit.
AL12-02	Pyrometer connection cable, 2.5 m, straight 12-pin plug to control unit, straight 12-pin socket for pyrometer.
AL07-02	Pyrometer connection cable, 2.5 m, straight 12-pin plug to control unit, straight 17-pin socket for pyrometer.
DK4000	Interface converter RS485 \leftrightarrow USB.
M3 pyrometer	If necessary: Fiber optic control pyrometer of your choice. It is recommended to use a control pyrometer with the same spectral range as the pyrometer used.
UM8000-01	90° deflection mirror for optics connection when using a fiber optic control pyrometer.

Optional: fiber optic control pyrometer



Sensortherm reserves the right to make changes in scope of technical progress or further developments.

Sensortherm-Datasheet_HE1200N_PortableTemperatureSource (April 02, 2024)

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