

# PYROTHERM CS 1500

## Infrared calibration source/black body

### Overview



### Description

The infrared radiation source PYROTHERM CS 1500 is well suited for calibration and examination of infrared radiation thermometers in the temperature range from 300 °C to 1500 °C.

The temperature adjustment can be done directly at the black body or via serial interface RS-485 (optional USB adapter) with PC software. Digital PID controller and high-precision platinum thermocouple provide excellent accuracy and stability.

### Technical data

|   |   |
|---|---|
| Type  | PYROTHERM CS 1500                         |
| Temperature range   | 300 °C to 1500 °C <sup>1</sup>            |
| Aperture diameter   | 35 mm                                     |
| Emissivity  | 0.99 ± 0.005                              |
| Uncertainty   | ± 0.25 % of measured value ± 2 K · T [°C] |
| Control stability   | 0.3 K                                     |
| Display resolution  | 0.1 K                                     |
| Heat up time  | 300 °C: 20 min, 1300 °C: 40 min           |
| Temperature sensor  | Platin thermocouple                       |
| Controller  | PID                                       |
| Interface   | RS-485 (optional USB adapter)             |
| Dimensions  | 530 mm × 380 mm/355 mm × 500 mm           |
| Weight  | appr. 32 kg                               |
| Power supply  | 120/230 V AC, 3000 VA                     |
| <sup>1</sup> Specifications for ambient temperature 23 °C |   |