

Special pyrometers

Model	Temperature range	Application
PYROSPOT DA 10N PYROSPOT DA 10NV	400 °C to 2500 °C	Temperature measurement on silicium, laser application
PYROSPOT DG 10NT PYROSPOT DG 10NTV	500 °C to 2500 °C	Temperature measurement on tungsten
PYROSPOT DPE 10C PYROSPOT DT 40C	500 °C to 2000 °C 500 °C to 1800 °C	Temperature measurement on hot CO ₂
PYROSPOT DS 10N cal PYROSPOT DG 10N cal PYROSPOT DY 10G cal PYROSPOT DY 10L cal PYROSPOT DY 10F cal	600 °C to 2500 °C 300 °C to 1800 °C 100 °C to 1400 °C 0 °C to 1000 °C 200 °C to 1500 °C	Transfer radiation thermometer

▲ Temperature measurement on silicium and for laser application

The digital pyrometers PYROSPOT DA 10N/DA 10NV are developed for temperature measurements from 400 °C on silicium and for laser application in industry and research. Due to a special narrow-band spectral range the silicium, that is otherwise permeable for infrared radiation, can be measured exactly in a wide temperature range with almost constant emissivity.

Also for application on metal surfaces that are machined with laser the PYROSPOT DA 10N/DA 10NV is the best choice. The wavelength of many laser is outside of the spectral range of the pyrometer so that the temperature measurement is not influenced by the laser. The additional use of mostly extensive laser blocking filters lapses in this way.

- For temperature measurement between 400 °C and 2500 °C
- Special spectral range for measurement on silicium
- Keys and display for emissivity adjustment and display of temperature
- Vario optics with aiming light, through-lens sighting or color video module
- Short response time from 2 ms
- Temperature linear output 0/4 to 20 mA

▲ Temperature measurement on tungsten

Tungsten materials in a temperature range up to 2500 °C can be measured with the digital pyrometers PYROSPOT DG 10NT/DG 10NTV. Due to a special narrow-band spectral range exact measurements with a constant emissivity in a wide temperature range can be made.

- For temperature measurement between 500 °C and 2500 °C
- Special spectral range for measurement on tungsten
- Keys and display for emissivity adjustment and display of temperature
- Vario optics with aiming light, through-lens sighting or color video module
- Short response time from 2 ms
- Temperature linear output 0/4 to 20 mA

▲ Temperature measurements on hot CO₂

The digital pyrometers PYROSPOT DPE 10C and PYROSPOT DT 40C are special pyrometers for the temperature measurement of flames and combustion gasses that include CO₂. The narrow-band spectral range is thereby on the absorption band of hot CO₂.

- For temperature measurements between 500 °C and 2000 °C
- Device with RS-485 (DPE 10C) and USB (DT 40C) interface
- Through-lens sighting (DPE 10C)
- Low-cost 2-wire variant (DT 40C)