

PYROSPOT Series

■ Digital pyrometers for industrial applications

Non-contact temperature measurements from
-40 °C to 3000 °C



applications brazing ceramics digital display glas graphit hardening highspeed
independent industry kiln-engineering Laser LED metal non-contact op
cal-head packaging plastics precise robust RS485 special spot-measure
ment steel-industry stand-alone-operation through-lens-sighting universal us

PYROSPOT Series 10

Pyrometer for industry and research

Steel industry, kiln engineering, hardening, welding, brazing, ceramics industry and metal industry

- 50 °C to 3000 °C
- Short response time t_{95} from 2 ms
- 0/4 to 20 mA output (adjustable)
- Display and keyboard
- Vario optics
- Through-lens sighting, aiming light or video function
- RS485 interface

DPE 10MF	50 °C to 2500 °C (spectral range about 3.9 μm)
DP 10N	50 °C to 1200 °C (spectral range 2.0 μm to 2.8 μm)
DT 10G	100 °C to 2500 °C (spectral range about 5.14 μm)
DGE 10N	100 °C to 1200 °C (spectral range 2.0 μm to 2.6 μm)
DG 10N	200 °C to 2500 °C (spectral range 1.5 μm to 1.8 μm)
DS 10N	600 °C to 3000 °C (spectral range 0.8 μm to 1.1 μm)
DSR 10N	Ratio pyrometer with reduced emissivity influence



PYROSPOT Series 11

Fibre optics pyrometer for industrial applications

DGEF 11N	150 °C to 1200 °C (spectral range 2.0 μm to 2.6 μm)
DGF 11N	250 °C to 2500 °C (spectral range 1.5 μm to 1.8 μm)
DSF 11N	600 °C to 3000 °C (spectral range 0.8 μm to 1.1 μm)
DSRF 11N	Ratio pyrometer with reduced emissivity influence



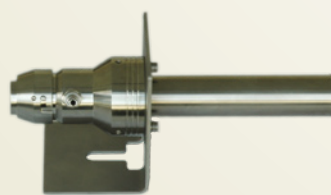
- 150 °C to 3000 °C
- Small measurement fields from 0.7 mm
- Short response time t_{95} from 2 ms
- 0/4 to 20 mA output
- Aiming light
- RS485 interface

PYROSPOT Series 30/34

Fibre optics pyrometer for glass industry

Glass temperature measurement in forehearth, feeder and glass tank, temperature measurement of brickworks tank side walls, regenerator and tank roof

DSF 30NG	600 °C to 1800 °C (spectral range 0.8 μm to 1.1 μm), USB
DSF 34NG	600 °C to 1800 °C (spectral range 0.8 μm to 1.1 μm), RS485



- 600 °C to 1800 °C
- 2-wire-pyrometer or bus-compatible model
- 4 to 20 mA output
- Air purge units with inconel or ceramic tubes
- High-quality mono fibre optics cable

PYROSPOT Series 40

- **-40 °C to 2500 °C**
- **Response time from 10 ms**
- **Small measuring spot sizes**
- **4 to 20 mA output**
- **Several optics**
- **Laser- or LED-aiming light**
- **USB-interface (with stand-alone-operation)**
- **Models with fibre optics**

Universal 2-wire-pyrometers

Measurement on non-metal or coated metal, paper and packaging, building material, plastics and food

DT 40L	-40 °C to 1000 °C (spectral range 8 μ m to 14 μ m)
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Measurement in glass industry on float glass, bottles, liquid glass

DT 40G	100 °C to 2500 °C (spectral range about 5.14 μ m)
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Measurement through flames and flue gas

DT 40F	300 °C to 2500 °C (spectral range about 3.9 μ m)
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Measurement on metal, ceramics, graphit and glass melt

DG 40N	250 °C to 1800 °C (spectral range 1.5 μ m to 1.8 μ m)
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DGF 40N	with fibre optics cable
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DS 40N	600 °C to 2500 °C (spectral range 0.8 μ m to 1.1 μ m)
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DSF 40N	with fibre optics cable
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PYROSPOT Series 44

Universal bus-compatible pyrometers

Measurement on non-metal or coated metal, paper and packaging, building material, plastics and food

DT 44L	-40 °C to 1000 °C (spectral range 8 μ m to 14 μ m)
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Measurement in glass industry on float glass, bottles, liquid glass

DT 44G	100 °C to 2500 °C (spectral range um 5.14 μ m)
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Measurement through flames and flue gas

DT 44F	300 °C to 2500 °C (spectral range um 3.9 μ m)
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Measurement on metal, ceramics, graphit and glass melt

DG 44N	250 °C to 1800 °C (spectral range 1.5 μ m to 1.8 μ m)
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DGF 44N	with fibre optics cable
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DS 44N	600 °C to 2500 °C (spectral range 0.8 μ m to 1.1 μ m)
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DSF 44N	with fibre optics cable
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- **-40 °C to 2500 °C**
- **Response time from 5 ms**
- **Small measuring spot sizes**
- **0/4 to 20 mA output (adjustable)**
- **Several optics**
- **Laser- or LED-aiming light**
- **RS485-interface**
- **Models with fibre optics cable**

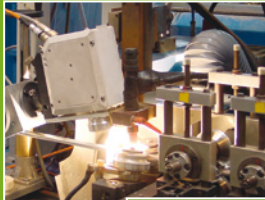


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for industrial infrared systems

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certificated after
ISO 9001:2008

Technical details are subject to change.
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PYROSPOT Accessories

Accessories	Series 10	Series 30/34	Series 40	Series 44
Hand-held parameterizing device	×	×	×	×
Power supply	×	×	×	×
Digital display	×	×	×	×
Mounting angle	×	×	×	×
Ball and socket mounting	×			
Air purge unit	×	×	×	×
Cooling jacket	×		×	×
Window slide	×		×	×



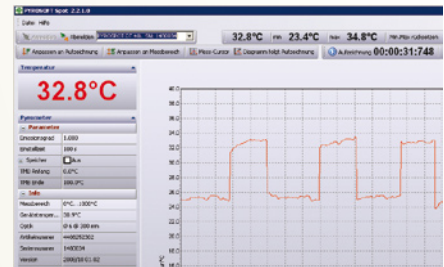
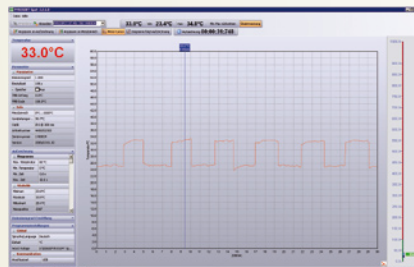
Digital display



Hand-held parameterizing device

Software PYROSOFT Spot

The provided software PYROSOFT Spot offers all possibilities for parameterization of the devices and recording including interpretation of the measured data.



Infrarot calibration sources/black bodies PYROTHERM



The infrared calibration sources **PYROTHERM** are well suited for calibration and examination of infrared radiation thermometers and infrared cameras in the temperature range from -15°C to 500°C . A serial RS485 interface enables the control of the black bodies **PYROTHERM CS 110** and **PYROTHERM CS 500** with the PC. Digital PID controller and precision platinumresistance thermometer Pt100 provide excellent accuracy and stability.