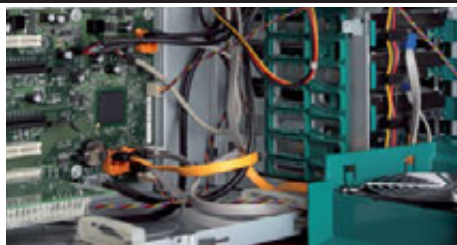


Temperature measuring instruments



ThermoMaster

NEW



Digital thermometer with contact thermocouple for use in laboratories and industry

- Large temperature measuring range: -50 °C ... 1300 °C
- Dual K-type inputs for thermocouple for direct differential measurement of two temperatures
- Two flexible thermocouples for a wide range of industrial applications
- The MAX function determines when limit values are exceeded during prolonged measuring procedures
- Fold-out base for laboratory use
- 1/4" stand connection for flexible arrangement in stationary setups
- Tough enclosure with rubber guard
- Illuminated, clearly arranged display

Available in April 2011.



Display range / Accuracy:

-50 °C ... 1300 °C / ± 0,5%

ThermoProbe K measuring range

-50 °C ... 200 °C

Inclusive: ThermoMaster, 2x ThermoProbe K thermocouple, battery, carrying case

ORDER NO.	EAN-CODE	PU
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082.035A	4 021563 676293	2
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ThermoSensor Air

NEW



K-type temperature sensor for measuring air and gas temperature

- Heat resistant handle
- Temperature sensor protected by metal sleeve (ø 6,5 mm)
- Sensor length: 165 mm
- Measuring range: -50 °C to 800 °C, accuracy class 2

For ThermoMaster and ThermoSpot-Vision only.

Available in April 2011.



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082.035.1	4 021563 676309	2
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ThermoSensor Tip

NEW



K-type temperature sensor for inserting in soft, highly viscous materials

- Heat resistant handle
- Sensor length: 165 mm
- Measuring range: -50 °C to 1300 °C, accuracy class 2

For ThermoMaster and ThermoSpot-Vision only.

Available in April 2011.



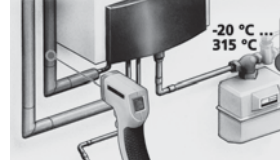
ORDER NO.	EAN-CODE	PU
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082.035.2	4 021563 676316	2
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IR temperature measuring instruments

ThermoSpot Laser



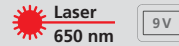
Non-contact infrared temperature instrument with integrated laser

- This non-contact measuring method is ideal for taking temperature measurements at locations that are difficult to access.
- It can also be used to take measurements in hazardous zones, such as where there are moving machine parts or in electrical installations
- Emission ratio: 0,95
- Lens: 8:1

Infrared measuring range: -20 °C ... 315 °C
Accuracy: -10 °C ... 60 °C ± 1,5 °C; ± 2 °C or ± 2% depending on the higher value

Inclusive: ThermoSpot Laser, battery

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082.040A	4 021563 664993	5



ThermoSpot Pro Laser



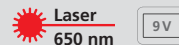
Non-contact infrared temperature instrument with integrated laser

- This non-contact measuring method is ideal for taking temperature measurements at locations that are difficult to access.
- It can also be used to take measurements in hazardous zones, such as where there are moving machine parts or in electrical installations
- Large temperature measurement range (-40 °C ... 600 °C)
- Emission ratio: 0,10 ... 0,99 (adjustable)
- Max. function: The highest value is displayed, if required.
- Lens: 8:1
- Illuminated display

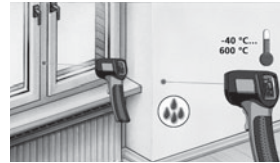
Infrared measuring range: -40 °C ... 600 °C,
Accuracy: ± 1 °C (-10 °C ... 60 °C); ± 1.5 °C (< 10 °C and > 60 °C) oder ± 1.5 % depending on the higher value

Inclusive: ThermoSpot Pro Laser, battery, softbag

ORDER NO.	EAN-CODE	PU
082.041A	4 021563 665013	5



CondenseSpot Pro



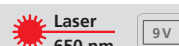
Non-contact, infrared temperature instrument for localising thermal bridges and condensation moisture

- With integrated laser for measured surface targeting
- Additional relative humidity measurement (20 % ... 90 %), assessment of dew point and ambient temperature
- Large temperature measurement range (-40 °C ... 600 °C)
- Emission ratio: 0,10 ... 0,99 (adjustable)
- Bar graph condense water indicator
- Min./Max./Avg. display: the smallest, largest or average value will be displayed.
- Lens 8:1
- Illuminated display

Infrared measuring range: -40 °C ... 600 °C
Accuracy: ± 1 °C (-10 °C ... 60 °C); ± 1.5 °C (< 10 °C and > 60 °C) oder ± 1.5 % depending on the higher value
Ambient temperature: -10 °C ... 60 °C
Accuracy: ± 2 °C
Hygrometer: 20% ... 90% relative air humidity
Accuracy: ± 3.0%
Dew point assessment: -20 °C ... 60 °C

Inclusive: CondenseSpot Pro, battery, softbag

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082.045A	4 021563 665020	2



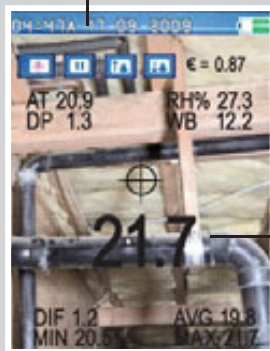
IR temperature measuring instruments

In many applications the infrared temperature measurement with integrated moisture sensors has become indispensable wherever it is necessary to safely determine surface temperatures or detecting harmful thermal bridges. An extensive range of accessories and functions enable complete documentation.

All measured data can be stored together with images or video sequences – the sound foundation for professional evaluation and fault analysis.

Display

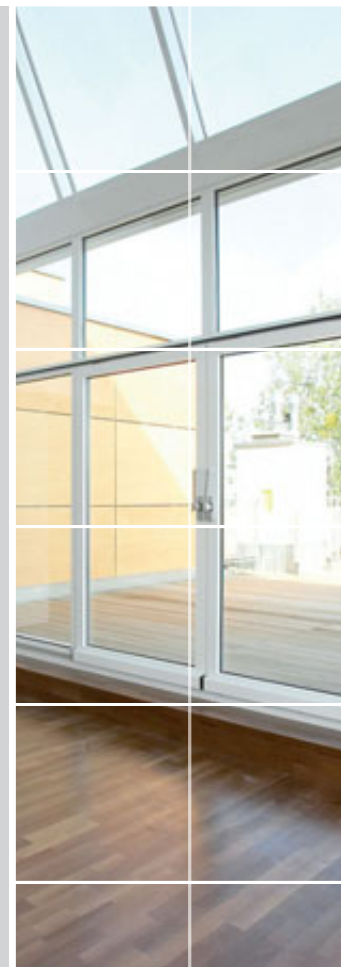
All relevant measured data shown in on-screen video image for direct assessment of measuring situation.



- E = Emission coefficient
- AT = Ambient Temperature
- DP = Dewpoint
- RH% = Relative humidity
- WB = Wet Bulb
- MIN = Minimum
- MAX = Maximum
- DIF = Difference
- AVG = Average

= Surface temperature of infrared measurement

a: date, time, battery status, laser active, infrared measurement stopped, high/low alarm function



ThermoSpot-Vision

NEW



Contactless temperature and moisture measuring instrument with real-time video image and memory function for perfect documentation

- Precision infrared thermometer with large measuring range: -50 °C ... 1000 °C
- Real-time video display of measuring point with all relevant data
- Measuring point marked by dual laser and target mark in display for exact object pinpointing
- Adjustable emission coefficient with material display
- Integrated sensors for humidity and ambient temperature to assess room climate (Dew point assessment)
- Additional K-type thermocouple connection for contact temperature measurement
- High-grade infrared optics: 50:1
- Visual and acoustic high/low alarm function
- Min./Max./Avg./Dif. display: Display of minimum, maximum, average and differential value.
- Playback function for image and video recordings
- All measured data recorded in internal memory or on micro SD card
- Powerful li-ion rechargeable battery
- USB interface

Available in April 2011.

Infrared: -50 °C ... 1000 °C,
Accuracy: ± 1,0 % / ± 1 °C (20 °C ... 500 °C)
± 1,5 % (500 °C ... 1000 °C)

Measuring rate: 150 ms

Spectral sensitivity: 8 ... 14µm

Ambient temperature: 0 °C ... 50 °C

Accuracy: ± 0,5% ± 0,5°C (10 °C ... 40 °C)

Relative air humidity: 0% ... 100% rH

Accuracy: ± 3,0 %rH (40 % ... 60 %rH)

Dew point temperature: -20 °C ... 50 °C

Accuracy: ± 0,5 °C (10 °C ... 40 °C)

K-type sensor: -50 °C ... 1350 °C

Genauigkeit: ± 0,5 % ± 1,5 °C (0 °C ... 1350 °C)

Emission coefficient: 0,10 ... 1,0, adjustable

DS-Ratio: 50:1

Inclusive: ThermoSpot-Vision, lithium ion battery, USB cable, software, carrying case

ORDER NO.	EAN-CODE	PU
082.080A	4 021563 676361	2

