



LUDWIG
SCHNEIDER



DIGITAL THERMOMETERS AND MEASURING SYSTEMS

THE FUTURE IS HIGHLY PRECISE



THE TEMPERATURE PROFESSIONALS

Ludwig Schneider GmbH & Co. KG ranks among the world's foremost manufacturers of high-precision temperature and density measuring instruments.

Our product variety ranges from push-in thermometers for universal use through to high-precision measuring systems. These, in combination with a traceable DAkkS calibration certificate – from our own calibration laboratory Ludwig Schneider Messtechnik GmbH – fulfill highest quality standards.

DIGITAL THERMOMETERS FROM -200 °C TO +1,370 °C

The high-precision digital instruments are designed for the mains-independent measurement of temperatures e.g. in quality control as well as process and production control and are used in the chemical, pharmaceutical and food industry as well in R&D facilities.

On request individual marking (e.g. logos, product marks, labels etc.) is possible.

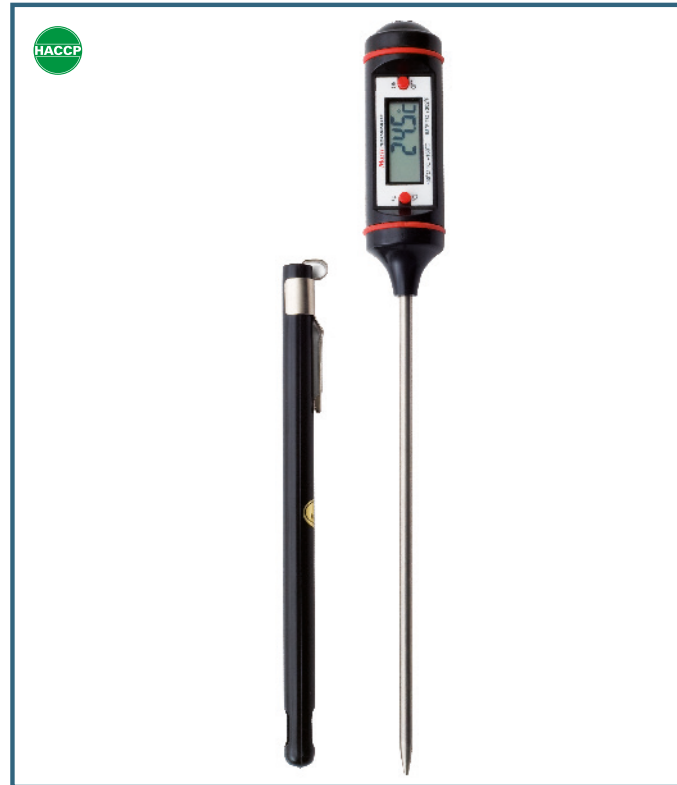
- + PRECISE MEASURING
- + QUICK RESPONSE TIMES
- + EXCELLENT READING LCD DISPLAYS
- + VARIOUS TYPE-DEPENDENT MEMORY FUNCTIONS AVAILABLE (E.G. HOLD, MAX./MIN., TEMPERATURE LIMIT ALARM, TIME/DATE ETC.)
- + A CHOICE OF DIGITAL THERMOMETERS IS AVAILABLE WITH WORKS CALIBRATION CERTIFICATE OR DAkkS CALIBRATION CERTIFICATE



COLOR SYMBOLS

	AVAILABLE WITH TRACEABLE DAkkS CALIBRATION CERTIFICATE
	AVAILABLE WITH WORKS CALIBRATION CERTIFICATE
	WITH MAGNET (FOR THE ATTACHMENT AT REFRIDGERATORS ETC.)
	WITH INTEGRATED ALARM FUNCTION
	WATERPROOF (IP 67)
	FULFILLS HACCP FOOD REGULATIONS
	AVAILABLE WITH INDIVIDUAL SENSORS

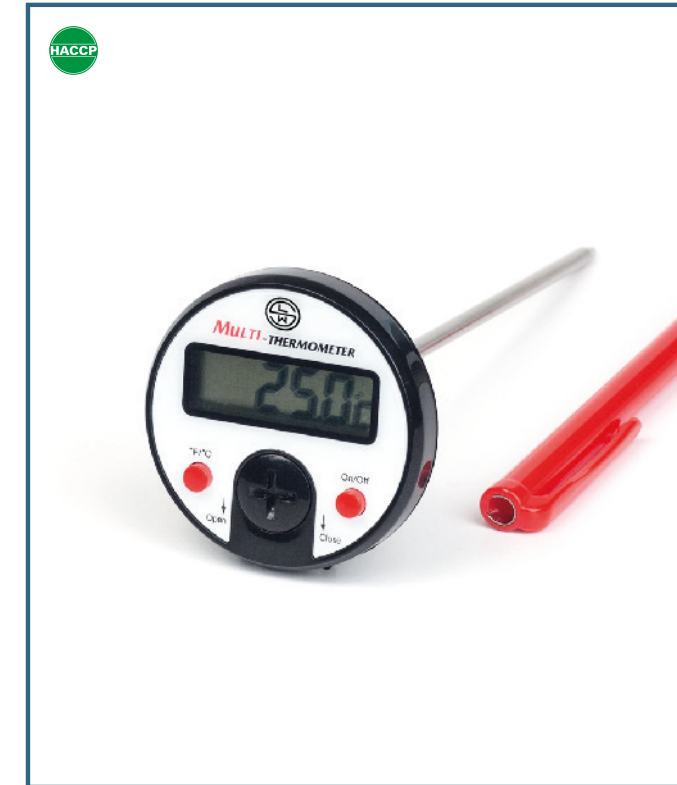
UNIVERSAL PUSH-IN THERMOMETERS



DIGITAL PUSH-IN THERMOMETER
WITH PLASTIC SLEEVE INCLUSIVE CLIP
TYPE 12050

General Specification	
Measuring range	-50 °C to +150 °C/-58°F to +302 °F
Accuracy	±1 °C (-30 °C to +150 °C), < ± 2 °C
Resolution	0.1 °C (-19.9 °C to +150.0 °C), 1 °C (< -19.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	75 x 20 mm, plastic, black
Ambient temperature	-10 °C to +50 °C
Temperature sensor	125 x 3.5 mm, stainless steel, with push-in tip
Response time	T 90 = 8 sec
Function	°C/°F selection, automatic deactivation after 60 min
Order-No.	55685

UNIVERSAL PUSH-IN THERMOMETERS



DIGITAL PUSH-IN THERMOMETER
WITH PLASTIC SLEEVE INCLUSIVE CLIP
TYPE 13020

General Specification	
Measuring range	-50°C to +150 °C/-58°F to +302 °F
Accuracy	±1 °C (-30 °C to +150 °C), ±1.8 °F (-22 °F to +302 °F), < > ±2 °C/±4 °F
Resolution	0.1 °C (-19.9 °C to +150.0 °C), 1 °C (< -19.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	Ø 54 mm, plastic, black
Ambient temperature	-10 °C to +50 °C
Temperature sensor	135 x 4 mm, stainless steel, with push-in tip
Response time	T 90 = 10 sec
Function	°C/°F selection, automatic deactivation after 60 min
Order-No.	64726



DIGITAL PUSH-IN THERMOMETER
WITH PLASTIC SLEEVE INCLUSIVE CLIP
WITH 90° TURNABLE CASING
TYPE 12070

General Specification	
Measuring range	-50 °C to +300 °C
Accuracy	±1 °C (-30 °C to +150 °C), < ± 2 °C
Resolution	0.1 °C (-19.9 °C to +150.0 °C), 1 °C (< -19.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	75 x 20 mm, plastic, black, turnable by 90°
Ambient temperature	-10 °C to +50 °C
Temperature sensor	200 x 3.5 mm, stainless steel, with push-in tip
Response time	T 90 = 10 sec
Function	hold, automatic deactivation after 60 min
Order-No.	55681



DIGITAL PUSH-IN THERMOMETER
WITH CABLE PROBE
TYPE 13010

General Specification	
Measuring range	-50 °C to +300 °C/-58 °F to +572 °F
Accuracy	±1 °C (-30 °C to +150 °C) ±1.8 °F (-22 °F to +302 °F), < > ±2 °C/±4 °F
Resolution	0.1 °C (-19.9 °C to +199.9 °C), 1 °C (< -19.9 °C, > +199.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	Ø 54 mm, plastic, black
Ambient temperature	-10 °C to +50 °C
Temperature sensor	120 x 3.5 mm, stainless steel, with push-in tip
Cable length	1 m
Response time	T 90 = 10 sec
Equipment	clip and magnet
Function	°C/°F selection, automatic deactivation after 60 min
Order-No.	64725

UNIVERSAL PUSH-IN THERMOMETERS



DIGITAL POCKET THERMOMETER
WITH PLASTIC SLEEVE AND CLIP
TYPE 12060

General Specification	
Measuring range	-50 °C to +150 °C
Accuracy	±1 °C (-30 °C to +150 °C), < ±2 °C ±1.8 °F (-22 °F to +302 °F), < ±4 °F
Resolution	0.1 °C (-19.9 °C to +150.0 °C), 1 °C (< -19.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	58 x 20 mm, plastic, black
Ambient temperature	-10 °C to +50 °C
Temperature sensor	125 x 3.5 mm, stainless steel, with push-in tip
Response time	T 90 = 4 sec
Function	hold, automatic deactivation after 60 min
Order-No.	55680

UNIVERSAL PUSH-IN THERMOMETERS



WATERPROOF POCKET THERMOMETER
WITH PLASTIC SLEEVE
TYPE 12090

General Specification	
Measuring range	-50 °C to +150 °C / -58 °F to +302 °F
Accuracy	±1 °C (-30 °C to +150 °C), < ±2 °C ±1.8 °F (-22 °F to +302 °F), < ±4 °F
Resolution	0.1 °C (-19.9 °C to +150.0 °C), 1 °C (< -19.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	188 x 24 x 20 mm, plastic, white
Ambient temperature	-10 °C to +50 °C
Degree of protection	IP 67 (waterproof)
Temperature sensor	85 x 3.5 mm, stainless steel, with push-in tip
Response time	T 90 = 6 sec
Function	°C/°F selection, hold, automatic deactivation after 60 min
Order-No.	55686



DIGITAL POCKET THERMOMETER
WITH PLASTIC SLEEVE
TYPE 12080

General Specification	
Measuring range	-50 °C to +300 °C / -58 °F to +572 °F
Accuracy	±1 °C (-30 °C to +150 °C), < > ±2 °C ±1.8 °F (-22 °F to +302 °F), < > ±4 °F
Resolution	0.1 °C (-19.9 °C to +199.9 °C) 1 °C (< -19.9, > +199.9 °C)
Battery	1 x 1.5 V (LR44 button cell)
Casing	215 x 40/20 mm, plastic, black
Ambient temperature	-10 °C to +50 °C
Temperature sensor	120 x 3.5 mm, stainless steel, with push-in tip
Response time	T 90 = 8 sec
Function	°C/°F selection, hold, min/max memory, automatic deactivation after 60 min
Order-No.	55682



DIGITAL TEMPERATURE MEASURING DEVICE
WITH TEMPERATURE SENSOR
TYPE 12200

General Specification	
Measuring range	-50 °C to +300 °C / -58 °F to +572 °F
Accuracy	±1 °C (-30 °C to +150 °C), < > ±2 °C ±1.8 °F (-22 °F to +302 °F), < > ±4 °F
Resolution	0.1 °C (-19.9 °C to +199.9 °C) 1 °C (< -19.9, > +199.9 °C)
Battery	2 x 1.5 V (Alkaline AAA)
Casing	140 x 75 x 27 mm, grey, splashproof
Ambient temperature	-10 °C to +50 °C
Temperature sensor	with handle: 140 x 3.5 mm, stainless steel, with push-in tip
Fixed cable length	1 m
Response time	T 90 = 10 sec
Function	min/max memory, high/low alarm, hold, °C/°F selection
Order-No.	55684

DIGITAL HANDHELD MEASURING DEVICES FOR THERMOCOUPLES TYPE K



DIGITAL TEMPERATURE MEASURING DEVICE WITH 2 INPUT CHANNELS
TYPE 13100 For measuring sensors type K (NiCr-Ni)

General Specification	
Measuring range	-200 °C to +1,370 °C/-328 °F to +2,498 °F
Accuracy	±0.1 % of displayed value + (+0.7 °C/+1.3 °F)
Resolution	0.1 °C/0.1 °F
Battery	1 x 9 V Block
Casing	184 x 64 x 30 mm, plastic, anthracite
Ambient temperature	0 °C to +50 °C
Temperature sensor	1 sensor with blade terminals
Cable length	3 m
Features	PC interface and bag
Function	°C/°F selection, min/max memory, average value memory, automatic deactivation after 60 min
Order-No.	65625
Available accessories	
Mains adapter (100-240 V, 0.3 A, 50-60 Hz, Output: 9 V, 0.2 A)	65627
Software/USB-Set (cable, driver and German software)	65826
Software/USB-Set (cable, driver and English software)	65827



THERMOCOUPLES TYPE K

General Specification	
Insertion probe with handle type K Measuring range: -50 °C to +600 °C (±2.5 °C) Acc. to DIN EN 60584 class 2	65861
Immersion probe with handle type K Measuring range: -50 °C to +700 °C (±2.5 °C) Acc. to DIN EN 60584 class 2	65859
Air and gas probe with handle type K Measuring range: -50 °C to +800 °C (±2.5 °C) Acc. to DIN EN 60584 class 2	65863
Surface probe with handle type K Measuring range: -50 °C to +400 °C (±2.5 °C) Acc. to DIN EN 60584 class 2	65860
Surface probe 90° with handle type K Measuring range: -50 °C to +400 °C (±2.5 °C) Acc. to DIN EN 60584 class 2 90° angled	65862
Beside this probes various further types are available on request.	

DIGITAL THERMOMETERS FOR MONITORING FREEZERS, REFRIGERATORS AND INCUBATORS



DIGITAL MIN/MAX-ALARM-THERMOMETER WITH DATALOGGING FUNCTION AND USB INTERFACE
TYPE 15010

General Specification	
Measuring range	-50 °C to +70 °C/-58 °F to +158 °F
Accuracy	±0.5 °C/±0.9 °F
Resolution	0.1 °C/0.1 °F
Battery	2 x 1.5 V (Alkaline AAA)
Casing	94 x 110 x 25 mm, plastic, white
Memory	removeable 2GB Micro SD card (max: 4GB)
Capacity	24 million recordings
External temperature sensor*	plug-in sensor in 5 ml plastic bottle, filled with ethylene glycol/water for measuring delay/alarm lag during opened door
Cable length	2 m
Features	folding stand
Function	°C/°F selection, min/max memory, high/low alarm, date/time display, reset
Order-No.	68260



DIGITAL MIN/MAX-ALARM-THERMOMETER WITH DATE/TIME SETTING
TYPE 13030

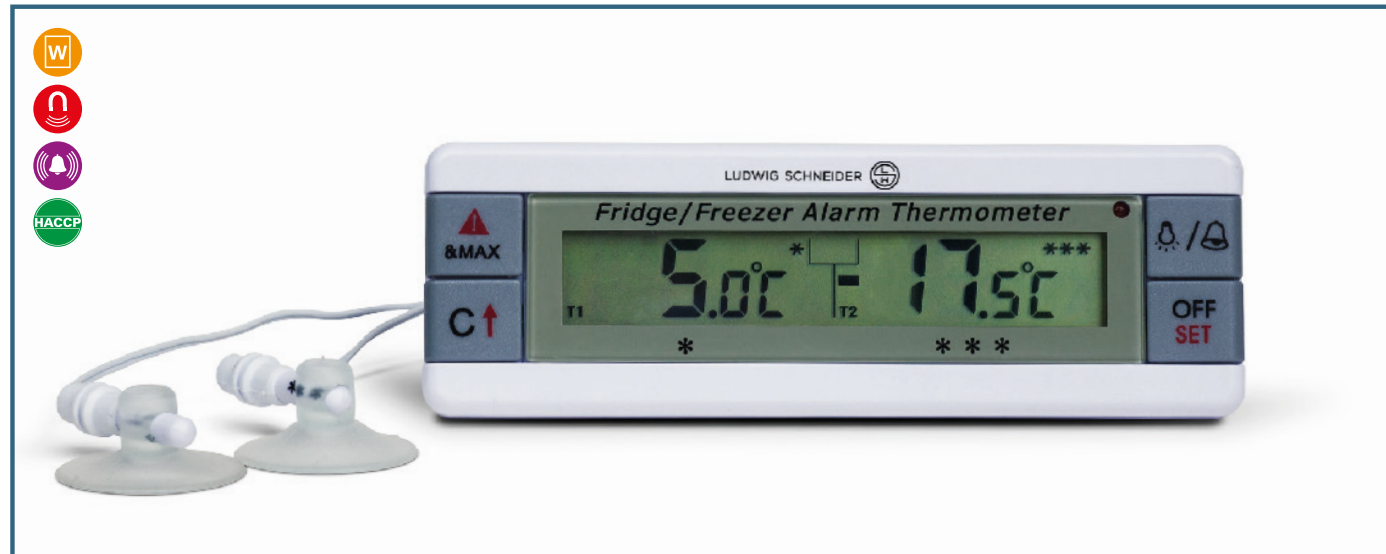
General Specification	
Measuring range	-50 °C to +70 °C/-58 °F to +158 °F
Accuracy	±0.3 °C/0.5 °F
Resolution	0.1 °C/0.1 °F
Battery	2 x 1.5 V (Alkaline AAA)
Casing	75 x 124 x 19 mm, plastic, white
Ambient temperature	0 °C to +40 °C
External temperature sensor*	plug-in sensor in 5 ml plastic bottle, filled with ethylene glycol/water for measuring delay/alarm lag during opened door
Cable length	3 m
Certificate	certificate of conformity acc. to table
Equipment	folding stand
Function	°C/°F selection, min/max memory, high/low alarm, date/time display

Application	Measuring range (°C)	Certified temperature (°C)	Bottle filling	Order-No.
Freezers	-50 °C to +70 °C	-20 °C	ethylene glycol mixture	63927
Refrigerators	-50 °C to +70 °C	+4 °C	ethylene glycol mixture	63893
Incubators	-50 °C to +70 °C	+37 °C	ethylene glycol mixture	63894

* A calibration can only be made for the external temperature sensor.

DIGITAL MONITORING THERMOMETERS

DIGITAL THERMOMETER FOR SIMULTANEOUS MONITORING OF FREEZERS AND REFRIGERATORS
TYPE 13040



General Specification	
Measuring range	-40 °C to +70 °C/-40 °F to +158 °F
Accuracy	±1 °C/±2 °F
Resolution	0.1 °C/0.1 °F
Battery	2 x 1.5 V (Alkaline AAA)
Casing	135 x 45 x 23 mm, plastic, white
Ambient temperature	0 °C to +50 °C
Temperature sensors	2 pieces with suckers
Cable length	3 m
Response time	T 90 = 10 sek
Certification	certified at 0 °C, accuracy: ±1 °C
Equipment	with folding stand and two magnets
Function	°C/°F selection, min/max memory
Display	backlight
Order-No.	65810

OPTIONALLY AVAILABLE WITH BOTTLES (5ml)



General Specification	Order-No.
Type 13041 With 2 temperature sensors, attached in 5 ml plastic bottles, filled with ethylene glycol/water for measuring delay/alarm lag at opened door, cable: 3 m	65811

DIGITAL MONITORING THERMOMETERS

DIGITAL THERMOMETER FOR SIMULTANEOUS MONITORING OF FREEZERS AND REFRIGERATORS WITH DATE/TIME SETTING
TYPE 13050



General Specification	
Measuring range	-50 °C to +70 °C/-58 °F to +158 °F
Accuracy	±1 °C/±2 °F
Resolution	0.1 °C/0.1 °F
Battery	2 x 1.5 V (Alkaline AAA)
Casing	135 x 45 x 23 mm, plastic, white
Ambient temperature	0 °C to +50 °C
Temperature sensors	2 pieces, plug-in sensor in 5 ml plastic bottle, filled with ethylene glycol/water for measuring delay/alarm lag during opened door
Cable length	3 m
Certification	certified at 0 °C, accuracy: ±1 °C
Equipment	with folding stand and two magnets
Function	°C/°F selection, min/max memory
Display	time display: 24 hours, date display: day/month/year
Order-No.	65812

PRECISION HANDHELD MEASURING DEVICES FOR Pt100 SENSORS



PRECISION DIGITAL HANDHELD MEASURING DEVICE WITH Pt100, IEC 751 TYPE 13750

General Specification	
Measuring range	-100 °C to +400 °C/-148 °F to +752 °F
Resolution	0.01 °C/0.02 °F
Battery	1 x 9 V
Casing	185 x 65 x 36 mm, plastic, black
Memory	for 99 values
Function	hold, °C/°F selection, min/max memory, time display
Relative operation	by press the REL-button the device memorize the present reading and show the difference to the next measured values
Display	backlight
Pt100 Probe, 4-Wire, Class A, IEC 751	
Accuracy Measuring system	±0.2 °C in range of: -50 °C to +150 °C
Nominal length	230 mm, Ø 5 mm
Cable length	1.5 m
Order-No.	70542



PRECISION DIGITAL HANDHELD MEASURING DEVICE WITH Pt100 WITH DATA LOGGING FUNCTION TYPE 13760

General Specification	
Measuring range	-100 °C to +400 °C/-37 °F to +93 °F
Resolution	0.01 °C/0.02 °F
Battery	1 x 9 V
Casing	185 x 65 x 36 mm, plastic, black
Memory	for 16,000 values
Probe	changeable
Function	hold, °C/°F selection, min/max memory
Logging function	data recording, setting of measuring interval, data evaluation
Relative operation	the device memorize the present reading and show the difference to the next measured values
Display	backlight
Pt100 Probe, 4-Wire, Class A, IEC 751	
Accuracy measuring system	±0.2 °C in range of: -50 °C to +150 °C
Nominal length	230 mm, Ø 5 mm
Cable length	1.5 m
Order-No.	70541

DATALOGGER AND INFRARED THERMOMETERS



4-CHANNEL DATALOGGER FOR TEMPERATURE TYPE 15210

Suitable for thermocouples type K, J, E, T, N, R, S

General Specification	
Measuring range	-200 °C to +1,370 °C (Type K)/ -328 °F to +2,498 °F (Type K)
Resolution	0.1 °C/0.1 °F from 600 °C 1 °C/1 °F
Accuracy	±0.1 % of displayed value + (+0.7 °C/+1.3 °F)
Casing	187 x 75 x 29 mm, plastic, black
Memory	32,000 data logger records each channel
Function	hold, °C/°F selection, min/max memory, average value memory
Screen	4 channels simultaneous, battery indication
Display	backlight
Data transfer	wireless via bluetooth or USB
Order-No.	70538



HANDHELD INFRARED THERMOMETER WITH LASER SPOT TYPE 23520

General Specification	
Measuring range	-20 °C to +500 °C/-4 °F to +932 °F
Accuracy	±2 °C/±4 °F of displayed value
Resolution	0.1 °C/0.2 °F
Field of view	12:1
Casing	157 x 115 x 36 mm, plastic, black
Operation temperature	0 °C to +40 °C
Response time	0.5 sec
Function	°C/°F selection
Screen	temperature hold indication, low battery indication
Display	backlight
Symbol	laser on
Order-No.	70539

DIGITAL THERMOMETERS TO MONITOR FREEZERS, REFRIGERATORS AND INCUBATORS



DIGITAL MIN/MAX-ALARM-THERMOMETER
TYPE 13000

General Specification	
Measuring range internal sensor	0 °C to +50 °C/+32 °F to +122 °F
Measuring range external sensor	-50 °C to +70 °C/-58 °F to +158 °F
Accuracy	±1 °C/±2 °F
Resolution	0.1 °C
Battery	1 x 1.5 V (Alkaline AAA)
Casing	98 x 110 x 21 mm, plastic, black
Ambient temperature	0 °C to +50 °C
Cable length	3 m
Response time	T 90 = 10 sec
Equipment	with folding stand
Function	min/max memory, high/low alarm
Order-No.	63800



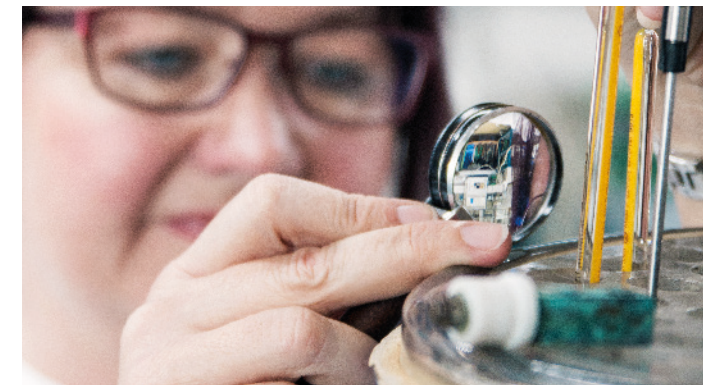
DIGITAL MIN/MAX-ALARM-THERMOMETER
AVAILABLE WITH BOTTLE (30ml)
TYPE 13000

	Freezers	Refrigerators	Incubators
Measuring range (°C)	-50 °C to +70 °C	-50 °C to +70 °C	-50 °C to +70 °C
Certified temperature (°C)	-20 °C	+4 °C	+37 °C
Bottle filling	ethylene glycol mixture	ethylene glycol mixture	ethylene glycol mixture
Order-No.	63927	63893	63894

ACCREDITED DAkkS-CALIBRATION LAB FOR TEMPERATURE & DENSITY

More than ever before today's products must provide reliably precise results. Through our DAkkS-calibration laboratory for temperature and density we provide the required reliability – now and in the future.

We measure temperatures from -196 °C to 1,850 °C and vouch for highest precision to all international standards. We document and certify measuring instruments in accordance with the individual requirements of our customers.



CERTIFIED PRECISION MADE BY LUDWIG SCHNEIDER MESSTECHNIK

In our modern calibration laboratory we offer our clients a wide variety of measurements including documentation:

- + **CALIBRATION TO FIXED POINTS**
Resistance thermometers
- + **ADJUSTMENT OF**
digital and analog measured-value detection systems
- + **COMPARISON MEASUREMENTS OF**
Resistance thermometers
Thermocouples
Liquid-in-glass thermometers
Mechanical thermometers
Block calibrators
Calibration baths and simulators
Hydrometers and alcoholmeters



BEYOND THE USUAL OUR SERVICE PERFORMANCE

From consulting, through calibration, documentation and training up to the development and manufacturing of customized calibration systems we offer you a wide range of services.

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www.kalibrierlabor.org



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PRODUCT SUMMARY

- Catalogue PRECISION LABORATORY THERMOMETERS /
GROUND JOINT THERMOMETERS
- Catalogue PRECISION THERMOMETERS FOR MATERIAL TESTING ASTM, ETC.
- Catalogue GENERAL PURPOSE THERMOMETERS /
THERMOMETERS FOR SPECIAL APPLICATION
- Catalogue CABLE-TEMPERATURE PROBES
- Catalogue RESISTANCE THERMOMETERS
- Catalogue THERMOCOUPLES
- Catalogue ACCU-SAFE
- Catalogue PRECISION THERMOMETERS FOR METEOROLOGY
- Catalogue ENGINE THERMOMETERS
- Catalogue PRECISION HYDROMETERS
- Catalogue DIGITAL THERMOMETERS AND MEASURING SYSTEMS

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