

Thermometers

On the next pages you will find a broad range of thermometers with fixed probes or exchangeable probes with rigid probes or probes with cable and hand grip. The thermometers are applicable at the broadest site of applications.

Applications

- Core temperature measurement
- Surface temperature measurement
- Temperature measurement of fluids
- Environmental temperature measurement
- Process monitoring
- Temperature regulation



Find your perfect thermometer:

Probe Thermometers	Measurement range	High accuracy	Probe type	Probe connection	Channels	Fast response time	MIN/MAX/hold	Waterproof housing	PTB Certification	Control Thermometer
TDC 110 Basic Thermometer	-50 °C ... +150 °C		NTC	Fixed	1					
TDC 150 Basic Thermometer	-50 °C ... +150 °C		NTC	Fixed	1			X		
TTX 100 Type T Thermometer	-50 °C ... +350 °C		Thermocouple type T	Fixed rigid probe	1	X				
TTX 110 Type T Thermometer	-50 °C ... +350 °C		Thermocouple type T	Fixed cable probe	1	X				
TFE 510 Core Thermometer	-50 °C ... +300 °C		Thermocouple type T	Lemo	1	X		X		
TFX 410 Core Thermometer	-50 °C ... +300 °C	X	Pt 1000	Fixed	1			X		
TFX 410-1 Core Thermometer without Probe	-50 °C ... +300 °C	X	Pt 1000	Lemo	1			X		
TFX 420 Core Thermometer without probe	-50 °C ... +400 °C	X	Pt 1000	Lemo	1		X	X		
TFX 422 Laboratory Thermometer	-50 °C ... +200 °C	X	Pt 1000	Fixed	1		X	X	X	
TFX 430 Precision Thermometer	-100 °C ... +500 °C	X	Pt 100	Lemo	1		X	X		
TTX 120 Type K Thermometer	-60 °C ... +1200 °C		Thermocouple type K	SMP	1					
TFN 520 Type K Thermometer	-200 °C ... +1200 °C	X	Thermocouple type K	Lemo or SMP	1		X			
TFN 520 Type J Thermometer	-100 °C ... +800 °C	X	Thermocouple type J	Lemo or SMP	1		X			
TFN 520 Type T Thermometer	-50 °C ... +300 °C	X	Thermocouple type T	Lemo or SMP	1		X			
TFN 520 Type E Thermometer	-100 °C ... +600 °C	X	Thermocouple type E	Lemo or SMP	1		X			
TFN 530 Type K Thermometer	-200 °C ... +1200 °C	X	Thermocouple type K	Lemo or SMP	2		X			
TFN 530 Type J Thermometer	-100 °C ... +800 °C	X	Thermocouple type J	Lemo or SMP	2		X			
TFN 530 Type T Thermometer	-50 °C ... +300 °C	X	Thermocouple type T	Lemo or SMP	2		X			
TFN 530 Type E Thermometer	-100 °C ... +600 °C	X	Thermocouple type E	Lemo or SMP	2		X			
GFX 460 Electronic Control Thermometer	-50 °C ... +300 °C		Pt 1000	Fixed	1			X		X
GFX 460B Electronic Control Thermometer	-50 °C ... +300 °C		Pt 100	Lemo	1			X		X
GFX 460G Electronic Control Thermometer	-50 °C ... +300 °C		Pt 1000	Fixed glass-coated probe	1			X		X

TDC 110 Basic Core Thermometer with spare battery



Technical Data

Measurement range	-50 °C ... +150 °C (-58 °F ... +302 °F)
Resolution	0.1 °C
Measurement accuracy	± 1 °C (-10 °C ... +120 °C), ± 2 °C for the remaining measurement range
Sensor	NTC
Probe needle	Stainless steel, Ø4 mm, L = 120 mm, pointed
Response time (t ₉₀)	19 sec (water)
Operating temperature	0 °C ... +50 °C
Storage temperature	-10 °C ... +60 °C
Display	7 mm LCD
Battery	1.5 V, G 10-A
Dimensions (L x W)	50 x 40 mm; needle length = 120 mm
Weight	Approximately 13 g

- Automatic shut off after approximately 10 minutes
- Including needle guard

Type	Description	Part No.
TDC 110	Low-Cost Thermometer, incl. needle protection and spare battery	1340-5121

TDC 150 Basic Core Thermometer with fast response time



Technical Data

Measurement range	-50 °C ... +150 °C (-58 °F ... +302 °F)
Resolution	0.1 °C (-20 °C ... + 150 °C)
Measurement accuracy	± 1 °C (-30 °C ... +150 °C)
Sensor	NTC
Probe	Stainless steel, Ø 3,5 mm, L = 125 mm, pointed
Response time (t ₉₀)	10 sec (water)
Operating temperature	0 °C ... + 50 °C
Storage temperature	-10 °C ... + 60 °C
Display	LCD-7 mm
Battery	1.5 V LR44, G13
Battery lifetime	Approximately 5.000 h
Dimensions (L x W x H)	24 x 26 x 85 mm
Housing material	ABS

- Approximately 5000 hours battery lifetime
- Waterproof housing (IP 65)
- Including needle protection

Type	Description	Part No.
TDC 150	Thermometer, incl. needle protection	1340-1611

TTX 100 Type T Core Thermometer

Thermocouple thermometer with cable probe



Technical Data

Mesurement range type T	-50 °C ... +350 °C (-58 °F ... +662 °F)
Accuracy type T (at +25 °C)	±0.8 °C or ±0.8 %, whichever is larger
Resolution	0.1 °C (-60 °C ... +199.9 °C) 1 °C for the remaining measurement range
Housing material	ABS
Operating temperature	-20 °C ... +50 °C
Storage temperature	-30 °C ... +70 °C
Response time (t ₉₀)	2 sec
Dimensions (L x W x H)	90 x 42 x 17 mm (without probe)
Battery	CR 2032, replaceable
Battery lifetime	Typically 100 hours of uninterrupted use
Temperature probe	Permanently attached to the device, with 60 cm silicone cable, probe with grip, needle Ø 3 mm, L = 105 mm, pointed
Protection class	IP 55

- Automatic shut off
- Replaceable battery

Type	Description	Part No.
TTX 100	Thermometer (Thermocouple type T) with cable	1340-5100
TTX-WM	Wall bracket for TTX 100 and TTX 110	1340-5040

TTX 110 Type T Core Thermometer

Thermocouple thermometer with fixed probe



Technical Data

Mesurement range type T	-50 °C ... +350 °C (-58 °F ... +662 °F)
Accuracy type T (at +25 °C)	±0.8 °C or ±0.8 %, whichever is larger
Resolution	0.1 °C (-60 °C ... +199.9 °C) 1 °C for the remaining measurement range
Housing material	ABS
Operating temperature	-20 °C ... +50 °C
Storage temperature	-30 °C ... +70 °C
Response time (t ₉₀)	2 sec
Dimensions (L x W x H)	90 x 42 x 17 mm (ohne Fühler)
Battery	CR 2032, replaceable
Battery lifetime	Typically 100 hours of uninterrupted use
Temperature probe	Permanently attached to the device, needle Ø 3 mm, L = 90 mm, pointed
Protection class	IP 55

- Including needle protection
- Automatic shut off
- Replaceable battery

Type	Description	Part No.
TTX 110	Thermometer (Thermocouple type T) with fixed probe, including needle protection	1340-5110
TTX-WM	Wall bracket for TTX 100 and TTX 110	1340-5040

TFE 510-1 Core Thermometer without Probe with fast response time



TFE 510

TPE 400

Technical Data

Measurement range	-50 °C ... +300 °C (-58 °F ... +572 °F)
Accuracy	±0.5 °C (0.9 °F)
Resolution	0.1 °C (0.2 °F)
Measurement probe	Thermocouple, type T
Operating temperature	-25 °C ... +50 °C (-13 °F ... 122 °F)
Storage temperature	-30 °C ... +70 °C (-22 °F ... 158 °F)
Thermal constant (t_{90})	3s
Battery	Lithium 3.0 V
Battery lifetime	Approximately 5 years
Dimensions (L x W x H)	109 x 54 x 22 mm
Housing material	ABS
Weight	Approximately 90g
Protection class	IP 67
Sampling rate	0.5 s to 15 s
Certificate	3-point factory calibration
Automatic shut off	After 2 hours, optional

- With replaceable probe
- Approximately 5 years battery life time

Type	Description	Part No.
TFE 510-1	Thermometer without probe	1340-5510
TFE 510 + TPE 400	Thermometer with probe, with blue silicone cable, 0.6 m	1340-5516
TPE 400	Probe with blue silicone cable, 0.6 m, for TFE 510	1341-5516
AG 140	Protective cover for handheld devices, red	1340-5005

TFX-410/420/422 Series Core Thermometers



TFX 410

TFX 410-1

TFX 420

TFX 422

General Technical Specifications

Accuracy	±0.3 °C
Resolution	0.1 °C
Operating temperature	-25 °C ... +50 °C
Storage temperature	-30 °C ... +70 °C
Battery lifetime	Approximately 5 years
Housing material	ABS
Protection class	Waterproof (IP 67)
Weight	Approximately 90 g
Deactivation	Automatic after 2 hours, deactivatable

TFX 410 Core Thermometer with fixed Pt 1000 probe



- High precision
- Approximately 5 years battery life time
- Waterproof (IP 67)

Technical Data

Measurement range	-50 °C ... +300 °C (-58 °F ... +572 °F)
Sensor	Pt 1000
Battery	3.0 V lithium, user replaceable
Dimensions (L x W x H)	54 x 22 x 109 mm (without probe)
Certificate	3-point factory calibration

Type	Description	Part No.
TFX 410	Thermometer with TPX 410 probe, pointed, 60 cm silicone cable	1340-5410

TFX 410-1 Core Thermometer without Probe for various Pt 1000 probes



Various probes available
(see page 87).

- High precision
- Approximately 5 years battery life time

Technical Data

Measurement range	-50 °C ... +300 °C (-58 °F ... +572 °F)
Sensor	Pt 1000
Sensor connection	Lemosia size 0
Battery	3.0 V Lithium, replaceable
Dimensions (L x W x H)	54 x 22 x 109 mm (without probe)
Certificate	3-point factory calibration

Type	Description	Part No.
TFX 410-1	Thermometer without probe	1340-5415

TFX 420 Core Thermometer without Probe with MIN/MAX and hold options



Various probes available
(see page 87).

- High precision
- Approximately 5 years battery life time

Technical Data

Measurement range	-50 °C ... +400 °C (-58 °F ... +752 °F)
Sensor	Pt 1000
Sensor connection	Lemosia size 0
Battery	3.0 V Lithium, replaceable
Dimensions (L x W x H)	54 x 22 x 109 mm (without probe)
Extra functions	Hold, MIN / MAX
Certificate	3-point factory calibration

Type	Description	Part No.
TFX 420	Thermometer without probe	1340-5425

TFX 422 Laboratory Thermometer with PTB Certification with fixed Pt 1000 probe



The device has been certified together with the EB 4401 food inspection case (please see page 139).



Technical Data

Measurement range	-50 °C ... +200 °C (-58 °F ... +392 °F)
Sensor	Pt 1000 (length 120 mm, Ø 3 mm)
Cable length	60 cm, silicone
Response time (t ₉₉)	Approximately 8 sec (moving water)
Battery	Lithium battery 3 V / 1 Ah, Type CR 2477
Dimensions (L x W x H)	109 x 54 x 22mm

- MIN/MAX and hold options
- High precision
- Approximately 5 years battery life time
- Waterproof (IP 67)

Type	Description	Part No.
TFX 422- with PTB certification	Thermometer, with PTB certification, with 0.6 m cable	1340-5423
TFX 422-PTB certification possible	Thermometer, PTB certification possible, with 0.6 m cable	1340-5422
TFX 422-150	Thermometer, with PTB certification, with 1.5 m cable	1340-5424
TFX 422-150	Thermometer, PTB certification possible, with 1.5 m cable	1340-5421

Accessories for TFX Thermometers



AG 130 Transport case



AG 140 Protective cover for handheld devices, red



AG 150 Plastic bracket suitable for 10 mm and 12 mm lamus tripods



AG 160 Stainless steel bracket



AG 170 Battery exchange set



AX 100 Extension cable for TFX devices, 1m, Lemosa size 0



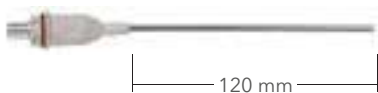
AG 161 Stainless steel bracket for thermometers with protective cover AG 140

Type	Description	Part No.
AG 130	Transport case	1341-3854
AG 140	Protective cover for handheld devices, red	1340-5005
AG 150	Plastic bracket	1340-5000
AG 160	Stainless steel bracket	1340-0595
AG 161	Stainless steel bracket for TFX devices in protective cover AG 140 (AG 140 not included)	1340-0596
AG 170	Battery-change set (incl. 3V lithium CR 2477 battery, needle, screws, tamping, O-ring, direction)	1100-0106
AX 100	Extension cable 1m for TFX devices (Lemosa size 0)	1340-5015

Probes for TFX 410-1 / TFX 420

Pt 1000 Probe (with Lemosa size 0)

TPX 100 blunt probe
(Needle length = 120 mm,
Ø 3 mm, blunt, stainless steel
needle, up to +400 °C)



TPX 200 pointed probe
(Needle length = 120 mm,
Ø 3 mm, pointed, stainless steel
needle, up to +400 °C)



TPX 300 glass-coated probe
(Needle length = 190 mm,
Ø 8 mm, glass-coated, stainless
steel needle, up to +400 °C)



TPX 400 pointed probe
(Needle length = 120 mm,
Ø 3 mm, pointed, with 60 cm
silicone cable, stainless steel
needle, up to +400 °C)



TPX 440 pointed probe
(Needle length = 120 mm,
Ø 3 mm, with 150 cm PTFE
cable, stainless steel needle, up
to +400 °C)



Technical Data

Accuracy Exceeds DIN IEC 584, class 1



TFX 420 + TPX 400-150
TFX 420 + TPX 440

Type	Description	Part No.
TPX 100	Blunt probe, needle length = 120mm, Ø 3 mm, without cable	1341-5417
TPX 200	Pointed probe, needle length = 120 mm, Ø 3 mm, without cable	1341-5418
TPX 200-20	Pointed probe, needle length = 200 mm, Ø 3 mm, without cable	1341-4182
TPX 200-30	Pointed probe, needle length = 300 mm, Ø 3 mm, without cable	1341-4183
TPX 200-40	Pointed probe, needle length = 400 mm, Ø 3 mm, without cable	1341-4184
TPX 300	Glass-coated probe, needle length = 120 mm, Ø 8 mm, without cable	1341-5419
TPX 400	Pointed probe with 60 cm silicone cable (red) and grip, needle length = 120 mm, Ø 3 mm	1341-5416
TPX 400-40	Pointed probe with 40 cm silicone cable (red) and grip, needle length = 120 mm, Ø 3 mm	1341-4164
TPX 400-150	Pointed probe with 150 cm silicone cable (red) and grip, L = 120 mm, Ø 3 mm	1341-4168
TPX 440	Pointed probe with 150 cm PTFE cable (white) and grip, L = 120 mm, Ø 3mm	1341-4169

TFX 430 Precision Thermometer

Reference thermometer with exchangeable Pt 100 probe



TFX 430 set

Various probes available
(please see page 89).

- MIN/MAX and hold options
- Approximately 5 years battery life time

TFX 430 without probe TFX 430 + TPX 130 TFX 430 + TPX 230 TFX 430 + TPX 330

Technical Data

Measurement range	-100 °C ... +500 °C (-148 °F ... +932 °F)
Measurement accuracy	0.05 °C (-50 °C ... +199.99 °C) ±0.2 ° for the remaining measurement range
Resolution	0.01 °C (-10.00 °C ... +199.99 °C) 0.1 °C for the remaining measurement range
Operating temperature	-20 °C ... +50 °C
Storage temperature	-30 °C ... +70 °C
Sensor	Pt 100
Sampling rate	1 sec to 15 sec
Battery	Lithium battery 3 V / 1 Ah, Type CR 2477
Battery lifetime	Approximately 5 years
Deactivation	Automatic after 2 hours, deactivatable
Dimensions (L x W x H)	109 x 54 x 22 mm
Housing material	ABS
Protection class	IP 67
Weight	Approximately 90 g

Type	Description	Part No.
TFX 430	Thermometer Pt 100 (without probe)	1340-5430
TFX 430 + TPX 130	Thermometer Pt 100 with probe (needle length = 200 mm, Ø 3 mm, blunt)	1340-5437
TFX 430 + TPX 230	Thermometer Pt 100 with probe (needle length = 200 mm, Ø 3 mm, pointed)	1340-5438
TFX 430 + TPX 330	Thermometer Pt 100 with probe (needle length = 190 mm, Ø 8 mm, glazed)	1340-5439
TFX 430 set	TFX set (Thermometer TFX 430, blunt probe TPX 130, extension cable AX 110, DAkKS calibration, Aluminum case AG130)	1340-5432

Accessories for TFX devices



AG 120 Artificial leather case



AG 130 Small case



AG 140 Protective cover for handheld devices, red



AG 150 Plastic bracket, suitable for 10 mm and 12 mm lamus tripods



AX 110 Extension cable for TFX 430 only

Type	Description	Part No.
AG 120	Plastic case	1341-0619
AG 130	Transport case	1341-3854
AG 140	Protective cover for handheld devices, red	1340-5005
AG 150	Plastic bracket	1340-5000
AX 110	Extension cable for TFX 430 (1m silicone) *	1340-5020

Alternate probes for TFX 430

Pt 100, 4 conductors class A, Lemo size 1

TPX 130 blunt probe
(Needle length= 200 mm,
Ø 3 mm, stainless steel needle,
up to +400 °C)



TPX 230 pointed probe
(Needle length = 200 mm,
Ø 3 mm, stainless steel needle,
up to +400 °C)



TPX 330 blunt, glass coated probe
(Needle length= 190 mm,
Ø 8 mm, stainless steel needle,
up to +400 °C)



Technical Data

Accuracy Pt 100, 4 conductors class A, Lemo size 1

Type	Description	Part No.
TPX 130	Blunt probe, needle length = 200 mm, Ø 3 mm	1341-5437
TPX 230	Pointed probe, needle length = 200 mm, Ø 3 mm	1341-5438
TPX 330	Blunt, glass coated probe, blunt, needle length = 190 mm, Ø 8 mm	1341-5439

TTX 120 Type K Thermometer

Basic multi-purpose thermometer



Required accessories:
NiCr-Ni probe
(starting on page 106)

- SMP connection
- User replaceable battery
- Measurement range to 1200 °C

Technical Data

Measurement range type K	-60 °C ... +1.200 °C (-76 °F ... +2192 °F)
Accuracy Type K (at +25 °C)	±1 °C or ±1%, whichever is larger
Resolution	0.1 °C (-60 °C ... +199.9 °C) 1 °C for the remaining measurement range
Housing material	ABS
Operating temperature	-20 °C ... +50 °C
Storage temperature	-30 °C ... +70 °C
Reaction time (t ₉₀)	Depends on probe
Dimensions (L x W x H)	90 x 42 x 17 mm
Battery	CR 2032, replaceable
Battery lifetime	Typically 100 hours of uninterrupted use
Protection class	IP 40
Connection	SMP
Channel	1
Sensor	Thermocouple, type K
Certificate	Factory calibration certificate

Type	Description	Part No.
TTX 120	Thermometer with SMP connection (without probe)	1340-5120
AN 144	Extension cable, 2.5 m silicone, SMP	1343-2627

TFN-520/530 Series 1-/2-Channel-Thermometers



General Technical Specifications

Measurement range type K	-200 °C ... +1200 °C (-328 °F ... +2192 °F)
Measurement range type J	-100 °C ... +800 °C (-148 °F ... +1472 °F)
Measurement range type T	-100 °C ... +300 °C (-148 °F ... +572 °F)
Measurement range type E	-100 °C ... +600 °C (-148 °F ... +1112 °F)
Accuracy at +25 °C, type K	±0.3 °C (-99.9 °C ... +250 °C)
Accuracy at +25 °C, type J	±0.3 °C (-50 °C ... +190 °C)
Accuracy at +25 °C, type T	±0.3 °C (-50 °C ... +220 °C)
Accuracy at +25 °C, type E	±0.3 °C (-50 °C ... +150 °C) ±0.5 % for the remaining measurement range
Resolution type K	0.1 °C (-99.9 °C ... +250 °C), 1 °C for the remaining measurement range
Resolution type J	0.1 °C (-99.9 °C ... +190 °C), 1 °C for the remaining measurement range
Resolution type T	0.1 °C (-99.9 °C ... +220 °C), 1 °C for the remaining measurement range
Resolution type E	0.1 °C (-99.9 °C ... +150 °C), 1 °C for the remaining measurement range
Operating temperature	-5 °C ... +50 °C
Storage temperature	-25 °C ... +60 °C
Sampling rate	0.5 sec ... 15 sec
Sensor	External; Thermocouple type K, J, T, E
Battery	Lithium, 3V
Battery lifetime	5 years
Dimensions (l x w x h)	115 x 54 x 22 mm
Weight	Approximately 90 g
Housing material	ABS

TFN 520 Type K, J, T, E Thermometer 1-channel high accuracy thermocouple thermometer



Please find probe variants starting on page 106.

- With Lemo connection
- Robust design for years of industrial use
- Approximately 5 year battery life time

Technical Data

Sensor connection	LEMO size 0
Channels	1 external (sensor/channel...)
Protection class	IP 52

Type	Description	Part No.
TFN 520	1-channel thermometer with Lemo connection	1340-5520

TFN 520-SMP Type K, J, T, E Thermometer 1-channel high accuracy thermocouple thermometer



Please find probe variants starting on page 106.

- With SMP connection
- Robust design for years of industrial use
- Approximately 5 year battery life time

Technical Data

Sensor connection	SMP
Channels	1 external
Protection class	IP 40

Type	Description	Part No.
TFN 520-SMP	1-channel thermometer with SMP connection	1340-5522

TFN 530 Type K, J, T, E Thermometer 2-channel high accuracy thermocouple thermometer



Please find probe variants starting on page 106.

- With Lemo connection
- Robust design for years of industrial use
- Approximately 5 year battery life time

Technical Data

Sensor connection	LEMO size 0
Channels	2 external
Protection class	IP 52

Type	Description	Part No.
TFN 530	2-channel thermometer with Lemo connection	1340-5530

TFN 530-SMP Type K, J, T, E Thermometer 2-channel high accuracy thermocouple thermometer



Please find probe variants
starting on page 106.

- With SMP connection
- Robust design for years of industrial use
- Approximately 5 year battery life time

Technical Data

Sensor connection	SMP
Channels	2 external
Protection class	IP 40

Type	Description	Part No.
TFN 530-SMP	2-channel thermometer with SMP connection	1340-5532

Accessories for TFN devices



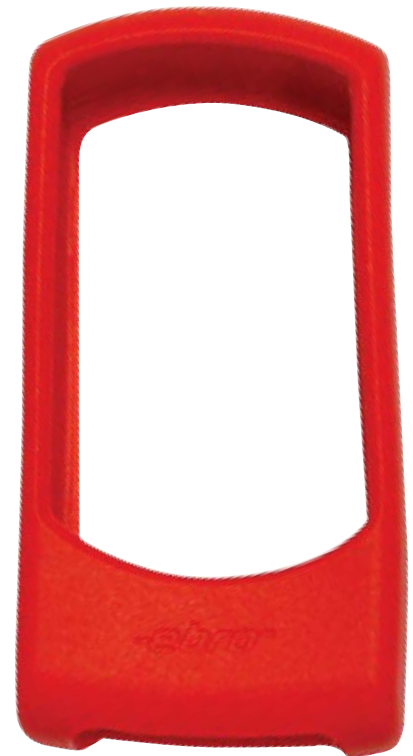
AG 120 Synthetic leather case



AG 130 Small case



AN 150 Large case (without device and accessories)



AG 140 Protective cover for handheld devices, red



AN 140 Extension cable, 1 m silicone, Lemo size 0

AN 143 Extension cable, 2.5m silicone, Lemo size 0



AN 142 Extension cable, 1m silicone, SMP

AN 144 Extension cable, 2.5 m silicone, SMP



AN 141 Adapter cable, 1m silicone (SMP/Lemo size 0)



AG 160 Stainless steel bracket



AG 161 Stainless steel bracket for TFN devices with protective cover AG 140

Type	Description	Part No.
AG 120	Synthetic leather case	1341-0619
AG 130	Small case	1341-3854
AG 140	Protective cover for handheld devices, red	1340-5005
AG 160	Stainless steel bracket	1340-0595
AG 161	Stainless steel bracket for TFN devices in protective cover AG 140 (AG 140 not included)	1340-0596
AN 140	Extension cable, 1m silicone, Lemo size 0	1341-2626
AN 141	Adapter cable, 1m silicone SMP/Lemo size 0	1341-2629
AN 142	Extension cable, 1m silicone, SMP	1343-2626
AN 143	Extension cable, 2.5m silicone, Lemo size 0	1341-2627
AN 144	Extension cable, 2.5 m silicone, SMP	1343-2627
AN 150	Aluminium carrying case for TFN devices and several large sensors	1341-3857

GFX 460 Series Electronic Contact Thermometers



GFX 460



GFX 460 G



GFX 460 B

General Technical Specifications

Measurement range	-50 °C ... +300 °C (-58 °F ... +572 °F)
Resolution	1 °C
Measurement accuracy	±1 °C
Measurement interval	1 sec
Operating temperature	-5 °C ... +60 °C
Storage temperature	-30 °C ... +70 °C
Regulation	Fuzzy regulation
Security features	<ul style="list-style-type: none"> • Identification of probe breakage • Identification of probe access • Security and regulation cycle according to DIN 12878 class 1 / 2
Access	DIN 45322 Diode plug, 5-pole
Other options	Green display background lighting
Protection class	IP 65

GFX 460 Electronic Contact Thermometer with fixed stainless steel Pt 1000 probe



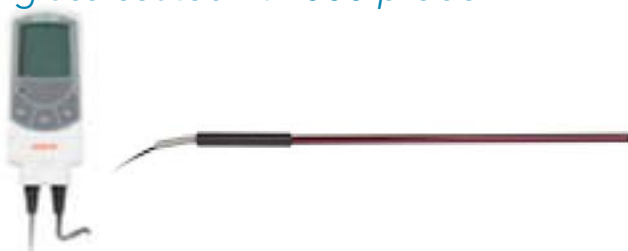
- Fuzzy control
- Control loop according to DIN EN 12878 class 1 and 2
- Green display background light

Technical Data

Probe	Pt 1000, permanently attached
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Type	Description	Part No.
GFX 460	Electronic contact thermometer with fixed stainless steel Pt 1000 probe, L = 205mm, Ø 3 mm, cable length 70cm	1340-5460

GFX 460 G Electronic Contact Thermometer with fixed glass-coated Pt 1000 probe



- Fuzzy control
- Control loop according to DIN EN 12878 class 1 and 2
- Green display background light

Technical Data

Probe	Pt 1000, glass-coated, permanently attached
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Type	Description	Part No.
GFX 460 G	Electronic contact thermometer with glass coated probe, L = 235mm, Ø 7 mm, cable length 70cm	1340-5462

GFX 460 B Electronic Contact Thermometer for replaceable Pt 100 probes



- Fuzzy control
- Control loop according to DIN EN 12878 class 1 and 2
- Green display background light

Technical Data

Probe	Pt 100, exchangeable
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Type	Description	Part No.
GFX 460 B	Electronic contact thermometer without probe	1340-5464

External Probes for GFX 460 B *Pt 100, 4 conductors class A, Lemo size 1*

TPX 130 blunt probe
(Needle length = 200 mm,
Ø 3 mm, stainless steel needle,
up to +400 °C)



GFX 430 B + TPX 130

TPX 230 pointed probe
(Needle length = 200 mm,
Ø 3 mm, stainless steel needle,
up to +400 °C)



GFX 430 B + TPX 230

TPX 330 blunt, glass coated
probe
(Needle length = 190 mm,
Ø 8 mm, stainless steel needle,
up to +400 °C)



GFX 430 B + TPX 330



Technical Data

Accuracy Pt 100, 4 conductors class A, size 1

Type	Description	Part No.
TPX 130	Blunt probe, needle length = 200 mm, Ø 3 mm	1341-5437
TPX 230	Pointed probe, needle length = 200 mm, Ø 3 mm	1341-5438
TPX 330	Blunt, glass coated probe, needle length = 190 mm, Ø 8 mm	1341-5439

Accessories for GFX 460 Series



AG 151 Stand adapter



AX 110 Extension cable for GFX 460 B only



AX 400 Relay box

Type	Description	Part No.
AG 151	Stand bracket	1340-5001
AX 110	Extension cable for GFX 460 B, xilicone cable, L = 1 m	1340-5020
AX 400	Relay box	1340-0157