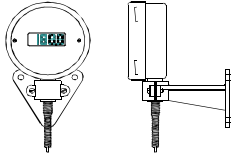
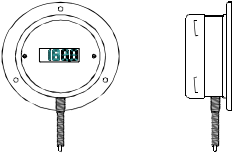
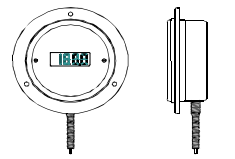
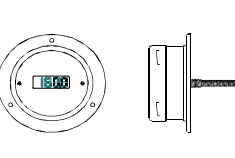
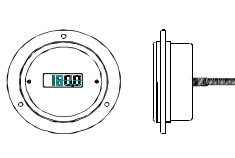
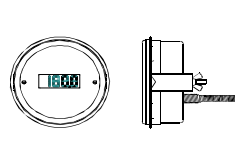


# REMOTE READING DIGITAL THERMOMETERS

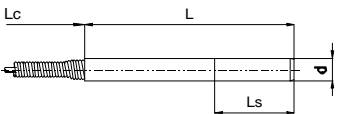
## Type TEC, with LCD display, battery powered

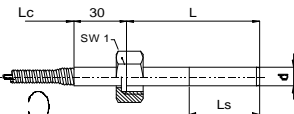
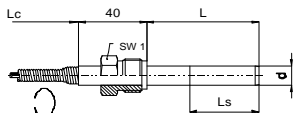
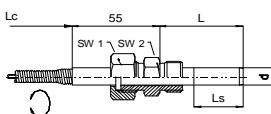
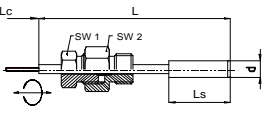
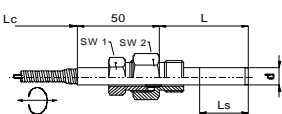
### STANDARD MODEL:

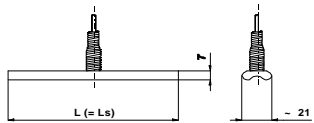
<b>CASE</b>	: Ø100 mm, bayonet lock, AISI304/1.4301, IP-65	<b>RANGE</b>	: -200...+600°C, see page 9
<b>STEM AND BULB</b>	: AISI321/1.4541, see page 7 and 8	<b>SENSING ELEMENT</b>	: PT100
<b>WINDOW</b>	: mineral glass 4 mm	<b>ACCURACY TYPE LX</b>	: < 0.15%, ± 1 digit
<b>DIAL</b>	: aluminium, white	<b>TYPE HX</b>	: < 0.1%, ± 1 digit
<b>DISPLAY</b>	: 3½ - digit LCD, 12 mm high	<b>AMBIENT TEMPERATURE</b>	: -20...+70°C
<b>CONNECTION</b>	: brass or AISI321, see page 7 and 8	<b>TEMPERATURE DRIFT</b>	: < ±0,005% /°C over T ambient
<b>POWER SUPPLY</b>	: ultra long life battery	<b>IMMUNITY</b>	: IEC-801-2/3/4
<b>UPDATE TIME</b>	: 3s or 10s, selectable by solderlink	<b>EMISSION</b>	: EN-55022, class B
<b>BATTERY LIFETIME</b>	: >7.5 year (3s), >10 year (10s)		

TYPE	MODEL	xx = Range	
		LX - 50.0 / + 150.0°C	HX - 200 / + 600°C
<b>A</b>		TEC100XA-LX	TEC100XA-HX O D
<b>B</b>		TEC100XB-LX	TEC100XB-HX O D
<b>D</b>		TEC100XD-LX	TEC100XD-HX O D
<b>F</b>		TEC100XF-LX	TEC100XF-HX O D
<b>G</b>		TEC100XG-LX	TEC100XG-HX O D
<b>H</b>		TEC100XH-LX	TEC100XH-HX O D
<b>OPTION</b>		<b>EXTRA COSTS</b>	
<b>-TT2</b>	built-in transmitter output 4...20 mA, 2-wire	TEC100xx-LX-TT2	TEC100xx-HX-TT2 O D

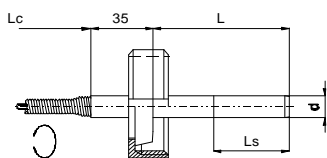
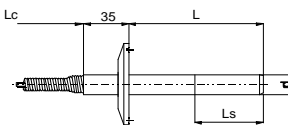
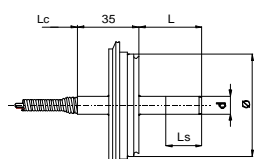
WIRE FOR REMOTE READING MODELS, TYPE TEC				
SENSOR TYPE	COVERING	Ø d (mm)	WIRE LENGTH Lw	
			FIRST 1000 MM	PER 1000 MM EXTRA
LX	AISI304	2,5		
HX	AISI304, SILICON WIRE	2,5		

BULB LENGTH AND DIAMETER FOR REMOTE READING MODELS, TYPE TEC				
TYPE	STANDARD MODEL Ls = 15 mm	bulb diameter Ø d (mm)	bulb length L AISI321/1.4541	EXTRA COSTS
A PLAIN STEM		9, 10, 12	per 100 mm	
		6, 6.35, 8, 11, 12½, 13, 14	per 100 mm	
		7, 15, 16, 17, 18, 20	per 100 mm	
FOR OPTIONS ON BULB LENGTH AND DIAMETER: SEE PAGE 8				

CONNECTIONS FOR REMOTE READING MODELS, TYPE TEC						
TYPE	MODEL options on connections see page 8; Ls = 15 mm	DIMENSIONS			EXTRA COSTS	
		connection	SW1	SW2	BRASS maximum 400°C	STAINLESS STEEL AISI304/1.4301
B coupling nut		1/2" BSP	27	-		
		3/4" BSP	32	-		
		1" BSP	41	-		
A 04 turning nipple		1/2" BSP	22	-	N.A.	
		3/4" BSP	30	-	N.A.	
		1" BSP	36	-	N.A.	
B 01 coupling nut + double nipple		1/2" BSP/NPT	27	22		
		3/4" BSP/NPT	27	27	N.A.	
		1" BSP/NPT	27	36	N.A.	
CS 1 adjustable connection, sliding on extension	 <p>FOR FEMALE CONNECTION: SEE PAGE 9</p>	1/2" BSP/NPT	22	27	N.A.	
		3/4" BSP/NPT	22	32	N.A.	
		1" BSP/NPT	22	36	N.A.	
CS 3 adjustable connection, sliding on stem	 <p>FOR FEMALE CONNECTION: SEE PAGE 9</p>	1/2" BSP/NPT	22	27	N.A.	
		3/4" BSP/NPT	22	32	N.A.	
		1" BSP/NPT	22	36	N.A.	

SPECIAL BULB FOR REMOTE READING MODELS, TYPE TEC				
TYPE	MODEL	DIMENSIONS (mm)		EXTRA COSTS
		L		STAINLESS STEEL AISI321/1.4541
S surface bulb		120		

## SANITARY CONNECTIONS FOR REMOTE READING MODELS TYPE TEC

TYPE	MODEL with polished bulb, Ls = 15 mm	DIMENSIONS	EXTRA COSTS
			STAINLESS STEEL AISI316/1.4401
<b>CM</b>  <i>sanitary coupling acc. to DIN 11851 (also available in SMS, RJT, IDF etc.)</i>		1" - NW25	
		1½" - NW40	
		2" - NW50	
		3" - NW75	
<b>TC</b>  TRI CLAMP sanitary connection acc. to ISO 2852		1" - NW25	
		1½" - NW40	
		2" - NW50	
<b>TV</b>  TUCHENHAGEN® sanitary Varivent® In-Line connection		<b>DN50</b> For In Line housing DN25	
		<b>DN68</b> For In Line housing DN40 and up	

### OPTIONS ON BULB AND STEM FOR REMOTE READING MODELS TYPE TEC

OPTION		EXTRA COSTS
		PER 100 MM
BULB AND STEM AISI316/1.4401	for diameter 6, 8, 9, 10, 12, 13, 14, 15, 16 or 18 mm	
BULB AND STEM POLISHED (MECHANICAL)	for all diameters	
BULB AND STEM PTFE® LINING (max. 250°C)	MAXIMUM 1000 mm ( longer: ON DEMAND)	first 100 mm:
BULB AND STEM HALAR® COATED (max. 120°C)		per 100 mm extra:

### OPTIONS ON CONNECTIONS FOR REMOTE READING MODELS TYPE TEC

OPTION		EXTRA COSTS
CONNECTION: 1/2" BSP female (i.o. male)	ONLY FOR TYPE: CS 1, CS 2 AND CS 3	
CONNECTION: 3/4" BSP female (i.o. male)		
CONNECTION: 1" BSP female (i.o. male)		
CONNECTION : M24x1.5	advance basic price connection 3/4" bsp with:	
CONNECTION : M20x1.5	advance basic price connection 3/4" bsp with:	
CONNECTION : M18x1.5	advance basic price connection 1/2" bsp with:	
CONNECTION : 3/8" BSP	advance basic price connection 1/2" bsp with:	
CONNECTION : 1/4" BSP	advance basic price connection 1/2" bsp with:	
OTHERS		ON DEMAND

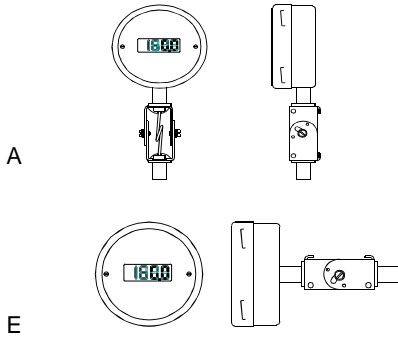
## MARKING FOR TEMPERATURE GAUGES

OPTION	EXTRA PRICE
TAG number on dial	
TAG number on AISI304/1.4301 TAG plate 55x25 mm	
Lettering on dial	

## CERTIFICATES FOR TEMPERATURE GAUGES

TYPE OF CERTIFICATE	NET PRICES
Certificate of Conformity acc. to EN 10204 2.2.	20,00
Calibration certificate (Traceable to N.K.O.)	46,00
Material certificate wetted parts acc. to EN 10204 3.1	ON REQUEST

## OPTIONS FOR DIGITAL THERMOMETERS, TYPE TER, TEC

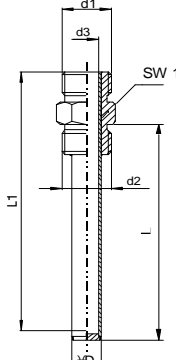
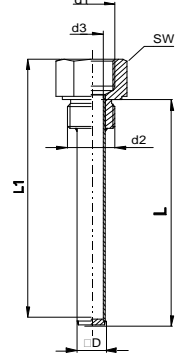
OPTION	EXTRA PRICE
<b>CASE MATERIAL AISI316/1.4401</b> (i.o. AISI304/1.4301)	CASE + BAYONETRING FRONT- OR BACKFLANGE
<b>KNEE-JOINT</b> AISI304/1.4301  for model: TER, Type A and E	
<b>K360</b>	<b>BENDABLE OVER 360°</b>
<b>PLEXIGLASS</b>	PMMA
<b>SECURIT" GLASS</b>	SAFETY GLASS
	+K360°

## STANDARD TEMPERATURE RANGES

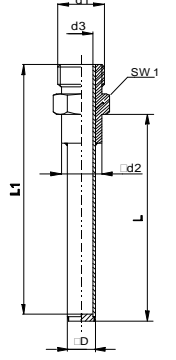
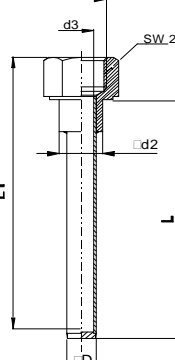
(in °C)	RESOLUTION	TYPE	(in °C)	RESOLUTION	TYPE
-200...+50	1	HX	-20...+100	0.1	LX
-120...+40	1	HX	-20...+120	0.1	LX
-110...+50	1	HX	-20...+180	1	HX
-100...+100	1	HX	-15...+45	0.1	LX
-100...+50	1	HX	-10...+15	O.D.	O.D.
-80...+40	1	HX	-10...+30	O.D.	O.D.
-60...+40	1	HX	-10...+50	0.1	LX
-60...+60	1	HX	-10...+110	0.1	LX
-50...+50	0.1	LX	-10...+150	0.1	LX
-40...+20	0.1	LX	0...+25	O.D.	O.D.
-40...+40	0.1	LX	0...+40	O.D.	O.D.
-40...+60	0.1	LX	0...+60	0.1	LX
-40...+80	0.1	LX	0...+80	0.1	LX
-40...+110	0.1	LX	0...+100	0.1	LX
-40...+120	0.1	LX	0...+120	0.1	LX
-40...+150	0.1	LX	0...+150	0.1	LX
-30...+30	0.1	LX	0...+200	1	HX
-30...+50	0.1	LX	0...+250	1	HX
-30...+70	0.1	LX	0...+300	1	HX
-30...+170	1	HX	0...+400	1	HX
-20...+40	0.1	LX	0...+500	1	HX
-20...+60	0.1	LX	0...+600	1	HX
-20...+80	0.1	LX	OTHER		O.D.

## STAINLESS STEEL POCKETS (WELDED)

### WELDED POCKETS (THREADED), $P_{max} = 25 \text{ bar}$

TYPE		STANDARD DIMENSIONS (in mm)								COSTS	PER 100 mm extra
02	03	BULB DIA.	L pocket	d1	d2	d3	D	SW-1	SW-2		
		10	100	1/2"BSP	1/2"BSP	10,5	12,5	22	27		
		10	100	1/2"BSP	3/4"BSP	10,5	12,5	27	32		
		10	100	1/2"BSP	1"BSP	10,5	12,5	41	41		
		12,5	63	1/2"BSP	1/2"BSP	13	15	22	27		
		12,5	63	1/2"BSP	3/4"BSP	13	15	27	32		
		12,5	63	1/2"BSP	1"BSP	13	15	41	41		

### WELDED POCKETS FOR WELDING, $P_{max} = 25 \text{ bar}$

TYPE		STANDARD DIMENSIONS (in mm)								COSTS	PER 100 mm extra
04	05	BULB DIA.	L pocket	d1	d2	d3	D	SW-1	SW-2		
		10	100	1/2"BSP	18	10,5	12,5	22	27		
		10	100	1/2"BSP	23	10,5	12,5	27	32		
		10	100	1/2"BSP	28	10,5	12,5	36	41		
		12,5	63	1/2"BSP	18	13	15	22	27		
		12,5	63	1/2"BSP	23	13	15	27	32		
		12,5	63	1/2"BSP	28	13	15	36	41		

L1 = BULB LENGTH THERMOMETER "L" FOR CONNECTION TYPE "B", "C" AND "CS 3"  
FOR TYPE "A 04": L1 = L + 15 mm

**OTHER DESIGNS AND MATERIALS ARE AVAILABLE TO CUSTOMER SPECIFICATIONS E.G. BAR-STOCK  
ALSO AVAILABLE WITH MATERIAL CERTIFICATE ACC. TO EN 10204 3.1**