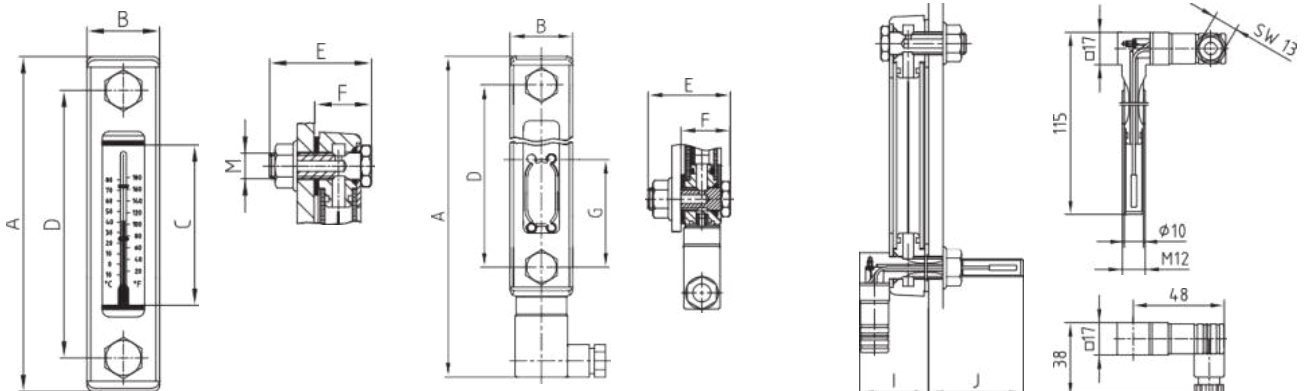


Oil level indicator



With (KOT) and without (KO)
temperature indicator

With visual/electrical monitoring
of liquid level in the tank
KOO/KOS

Combined with temperature switch
TS60, TS70 or TS80

Oil level indicator										
Description	Dimensions [mm]								With TS	
	A	B	C	D	E	F	M	G	I	J
KO 01 / KOT 01	108		37	76				—	—	—
KO 02 / KOT 02	159			127				—	39	76
KOO 02 / KOS 02	205	34	76	127	45	26	M12	50	47	68
KO 03 / KOT 03	286		203	254				—	39	76

Technical data:

KOT 01: Display range +20 °C to +80 °C
 KOT 02: Display range +20 °C to +80 °C
 KOO: Electrical switch as break contact
 KOS: Electrical switch as make contact
 Operating range: -10 °C to +80 °C

Recommended screw tightening torque: 8 Nm

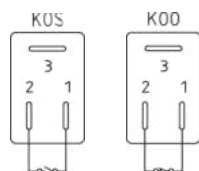
Preload pressure of tank: max. 0.8 bars

Technical data (break contact/NC) of temperature switch:

Switching temperature: TS60: Switching temperature 60 °C/140 °F
 TS70: Switching temperature 70 °C/158 °F
 TS80: Switching temperature 80 °C/176 °F

Hysteresis: 20 °C
 Tolerance of shifting temperature: ± 5 °C

Electrical connections and functions:



Contact load:
 KOS max. 10 W
 KOO max. 5 W

Switching voltage:
 50V AC/DC
 Terminal 3 not assigned



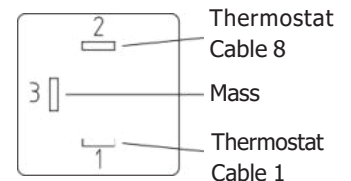
Switching current:
 KOS max. 0.50 A
 KOO max. 0.25 A
 Wiring box with PG9
 Protection class IP65
 Terminal 3 not assigned

AC current:

- Max. voltage -250V
- Max. current with 10,000 circuits
 2.5 A with - cos φ = 1.0
 1.6 A with - cos φ = 0.6
- Max. current with 100,000 circuits
 0.5 A with cos φ = 1.0
 ~0.25 A with cos φ = 0.6
- Min. switching current 50 mA

DC current:

- Max. voltage 42V
- Max. current with 10,000 circuits 1 A



Ordering
example:

KO	02	+ TS80
Type [KO, KOT KOO or KOS]	Size [01, 02 or 03]	With temperature switch [TS60, TS70 or TS80]

Temperature feeler, filler breather and oil level sight glass



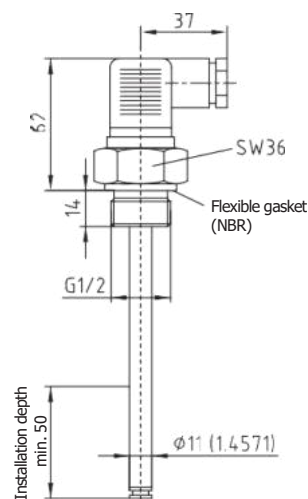
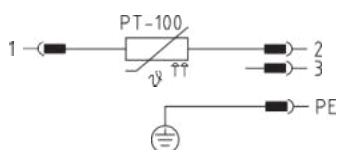
Temperature feeler TE-PT-100

Basic values of precision resistor PT-100											
°C	0	10	20	30	40	50	60	70	80	90	100
Ohm	100.00	103.90	107.79	111.67	115.54	119.40	123.24	127.07	130.89	134.70	138.50

Technical data

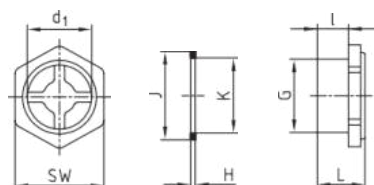
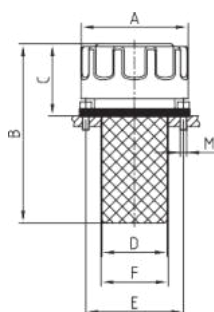
Screw connection and immersion sleeve:	1.4571 (stainless steel) - brass on request
Lengths available:	100, 200 and 300 mm available from stock (special lengths up to 1000 mm)
Operating pressure:	10 bars with immersion sleeve made of stainless steel
Operating temperature/measuring range:	-40 °C to +100 °C
Resistance feeler element:	PT-100 category B DIN/IEC 751
Max. S-wire current PT-100:	1 mA
Plug:	According to DIN 43650 - 3 poles + PE, protection class IP65, cable gland PG11

Wiring diagram:



Ordering example:	TE	PT-100	300
	Electronic temperature feeler	Resistance feeler element	Length of immersion sleeve

KE 01 and KE 02
Filter grade 10 µm



Filler breather with air filter

Size	Dimensions [mm]						
	A	B	C	D	E	F	M
KE 01	44.5	110	48.5	28	41.3	30	3xM5
KE 02	79.9	134	54	48.7	73	53	6xM5

Air flow: KE 01 = 0.40 m³/min

KE 02 = 0.45 m³/min

Oil level sight glass

Size	Dimensions [mm]							
	L	I	d1	G	H	J	K	SW
G 1/2 A	17	9	15	G 1/2"	2	27	21	27
G 3/4 A	18	10	21	G 3/4"	2	32	27	32
G 1 A	20	11	25	G 1"	2	40	34	41

Ordering example:

Filler breather	KE 01
Type	Size

Ordering example:

Oil level sight glass	G 3/4 A
Type	Size