
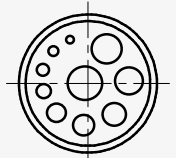





## Accessories // Adapter sleeves // Measuring inserts



Accessories	Order code		
<b>Adapter sleeve (including one drilling)</b>	Calibrators with dry block function	According configuration	
<b>More drillings</b>	Custom	According configuration	
<b>Black body sleeve for calibration of infrared thermometers</b>	Ø 60 x 150mm and Ø 60 x 170mm	EZ15060B03AL41R	
<b>Tub insert for micro calibration bath</b>	Ø 60 x 170 mm	EZTPMBEK000000	
<b>Adapter sleeve for surface temperature sensors</b>	Calibrators with block dimensions 170 mm (depth)	EZ20460B03AL050F	



## Accessories // Adapter Sleeves // Drilling Patterns



Aluminium, Ø 60 mm



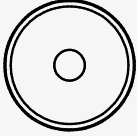
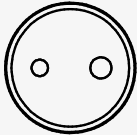
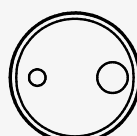
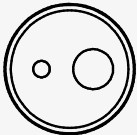
Brass, Ø 28 mm

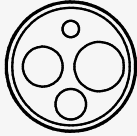
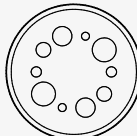
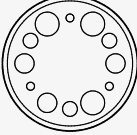
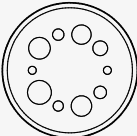
### Your Advantages

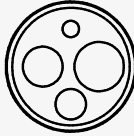
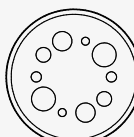
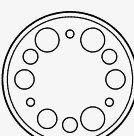
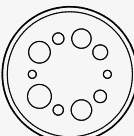
#### Series

#### Adapter Sleeves

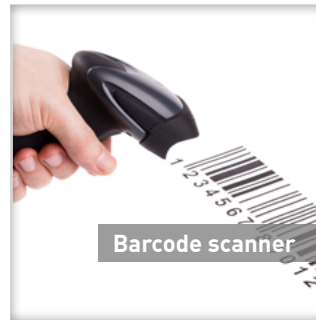
- Our standard adapter sleeves allow you to save money in contrast to individually manufactured adapter sleeves
- Available from stock

Type	Sleeve Dimensions / Material		
TP 37200E.2 / TP 37165E.2 TP 17200S / TP 17165S / TP 17650S TP 17200 / TP 17165 / TP 17650	Ø 28 mm x 150 mm / Brass		
Drilling Pattern [mm]		Order number	Savings
1 x Ø 3.5 1 x Ø 6.5 1 x Ø 13.5		EZ15028B03MS17	2 %
1 x Ø 6.5		EZ15028065MS00	0 %
2 x Ø 3.5		EZ15028B02MS09	23 %
1 x Ø 3.5 1 x Ø 4.5		EZ15028F02MS80	23 %
1 x Ø 3.5 1 x Ø 6.5		EZ15028H02MS01	23 %
1 x Ø 3.5 1 x Ø 8.5		EZ15028B02MS67	23 %
1 x Ø 3.5 1 x Ø 6.5 1 x Ø 8.5 1 x Ø 10.5		EZ15028C04MS15	36 %

Type	Sleeve Dimensions / Material		
TP 3M165E.2 / TP 3M255E.2	Ø 60 mm x 163 mm / Aluminum		
Drilling Pattern [mm]		Order number	Savings
1 x Ø 3.5 1 x Ø 6.5 1 x Ø 8.5 1 x Ø 10.5		EZ16360C04AL05	52 %
2 x Ø 3.5 2 x Ø 4.5 2 x Ø 6.5 2 x Ø 8.5 2 x Ø 10.5		EZ16360D10AL85	61 %
3 x Ø 3.5 3 x Ø 6.5 3 x Ø 8.5 3 x Ø 10.5		EZ16360D12AL86	60 %
2 x Ø 3.5 1 x Ø 4.5 1 x Ø 5.0 1 x Ø 5.5 1 x Ø 6.5 1 x Ø 8.5 1 x Ø 9.0 1 x Ø 9.5 1 x Ø 10.5		EZ16360D10AL87	54 %

Type	Sleeve Dimensions / Material		
TP 17166S / TP 17166 / TP 17450S / TP 17450	Ø 60 mm x 150 mm / Aluminum		
Drilling Pattern [mm]		Order number	Savings
1 x Ø 3.5 1 x Ø 6.5 1 x Ø 8.5 1 x Ø 10.5		EZ15060D04AL78	52 %
2 x Ø 3.5 2 x Ø 4.5 2 x Ø 6.5 2 x Ø 8.5 2 x Ø 10.5		EZ15060D10AL79	61 %
3 x Ø 3.5 3 x Ø 6.5 3 x Ø 8.5 3 x Ø 10.5		EZ15060D12AL81	60 %
2 x Ø 3.5 1 x Ø 4.5 1 x Ø 5.0 1 x Ø 5.5 1 x Ø 6.5 1 x Ø 8.5 1 x Ø 9.0 1 x Ø 9.5 1 x Ø 10.5		EZ15060D10AL83	54 %

## Accessories // Certificates // Recalibration



Certificates	Order code
SIKA-Works calibration certificate 1st function	EKTPWP1FKT
SIKA-Works calibration certificate 2nd function	EKTPWP2FKT
SIKA-Works calibration certificate 3rd function	EKTPWP3FKT
SIKA-Works calibration certificate 4th function	EKTPWP4FKT
DAkks calibration certificate 1st function	EKTPDAKKS1FKT
DAkks calibration certificate 2nd function	EKTPDAKKS2FKT
DAkks calibration certificate 3rd function	EKTPDAKKS3FKT
DAkks calibration certificate 4th function	EKTPDAKKS4FKT
Additional test point DAkks-Certificate	EKTPDAKKSZUSP
SIKA-Works calibration certificate for calibrator and measuring inputs	EKTPWPMINST
DAkks-Certificate for calibrator and measuring inputs	EKTPDAKKSMINST

Recalibration	Order code
Document of pre-adjustment values (block) re-calibration (each function)	EKTPEW
Adjustment (block) re-calibration (each function)	EKTPJUSTAGE
Adjustment TT Scan and adjustment internal measuring instrument	EKTPJUSTAGESCAN

Accessories	For type	Order code
<b>Transport</b>		
Transport case	TP 17650	EZTPKOFFER002
	TP 17450, TPM 255	EZTPKOFFER003
	TP 17165, TP 17200, TP37 165, TP 37200	EZTPKOFFER004
	TP M165, TP 17166, TP 3M165	EZTPKOFFER005
	TP 37700	EZTPKOFFER006
	TP 18200	EZ999999990001
	TP 281300	EZ999999990006
	TP 18850	EZ999999990005
Transport case with trolley attachment frame	TP 17650	EZTPKOFFER002TG
	TP 17450, TPM 255	EZTPKOFFER003TG
	TP 17165, TP 17200, TP37 165, TP 37200	EZTPKOFFER004TG
	TP M165, TP 17166, TP 3M165	EZTPKOFFER005TG
	TP 37700	EZTPKOFFER006TG
Transport bag	TP 17000	XE2193
<b>PC</b>		
PC software (without TT-Scan)	TP 17200S, TP 17165S, TP 17166S, TP M165S, TP M255S, TP 17450S, TP 17650S, TP 281300E	EZ999999999971
PC software (with TT-Scan)	TP 17200S, TP 17165S, TP 17166S, TP M165S, TP M255S, TP 17450S, TP 17650S, TP 281300E	EZ380000000001
Converter RS485 to USB	TP 17200S, TP 17165S, TP 17166S, TP M165S, TP M255S, TP 17450S, TP 17650S, TP 281300E, TP 38165, TP38650	EZ170000000002
Converter RS232 to USB	TP 38165, TP 38650	EZ380000000002
Network switch	TP 37200, TP 37165, TP 3M165, TP 3M255	XE2103
Barcode scanner	TP 37200, TP 37165, TP 3M165, TP 3M255	XE2102
Wifi router	TP 37200, TP 37165, TP 3M165, TP 3M255	XE2101
<b>Calibration</b>		
Tripod	TP M165, TP M255	EZTPMSG0000000
Calibration liquid - Silicone oil 50 cSt (50...270 °C)	Calibrators with micro calibration bath fuction	EZSÖ0500000000
Calibration liquid - Silicone oil 20 cSt (7...220 °C)	Calibrators with micro calibration bath fuction	EZSÖ0200000000
Calibration liquid - Silicone oil 10 cSt (-35...155 °C)	Calibrators with micro calibration bath fuction	EZSÖ0100000000
Calibration liquid (Silicone oil), 5 cSt (-40...123°C)	Calibrators with micro calibration bath fuction	EZSÖ0050000000
Ext. reference sensor TFEE 255-3-300 (-55...255 °C)	TP 38165	W033P413000XX002
Ext. reference sensor TFEE 650-3-300 (-35...650 °C)	TP 38650	W034P413000XX002
Ext. reference sensor TF 255-3-300 (-55...255 °C)	TP 37200, TP 37165, TP 3M165, TP 3M255	W033P413000GX002
Customised linearisation TFEE	TP 38165, TP 38650	EKTTEE-LIN0000



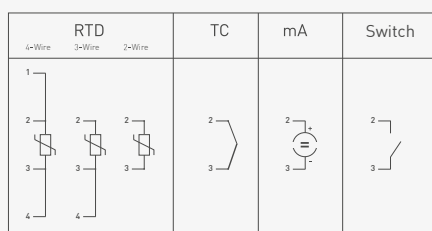
## Accessories // Measuring instrument // TT-Scan



Scanner unit TT-Scan

### Properties

#### Possibilities to connect



#### Version

Scanner device with precision measuring instrument

#### Measuring inputs

Switchable  
For up to 8 sensors  
Sensor type free configurable

#### General data

##### Power supply

230 VAC ±10 %, 50/60 Hz via adapter

##### Power consumption

Approx. 10 W

##### Dimensions (D x W x H)

200 x 140 + 40 x 380 mm

7.87 x 5.51 + 1.57 x 14.96 in

##### Weight

Approx. 2.5 kg

Approx. 5.51 lbs

#### Equipment features

32 x 4 mm/1.26 x 0.16 in connections free of thermal voltage  
Connection for external calibration reference sensor  
External cold junction available  
Serial USB data interface, incl. USB data cable

#### Options

Aluminium transport case, test & calibration software, DAkkS certificate, SIKa works certificate, external calibration reference sensors

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www.techniCAL-sys.com



## Accessories // Measuring instrument // TT-Scan // Measuring inputs

	Version	Measuring range		Tolerance	
<b>Resistance thermometer EN 60751</b>					
<b>Pt100</b> <b>Pt500</b> <b>Pt1000</b>	2-, 3-, 4-wire	-90.00 °C...850.00 °C	-130.00 °F...1562.0 °F	±0.005 % full scale ±0.01 °C	±0.005 % full scale ±0.02 °F
Connection possibility through 4 mm connections free of thermal voltage					
<b>Thermocouples according to DIN EN 60584 / DIN 43710</b>					
<b>Type K</b>	NiCr-NiAl	-90.00...999.99 °C 1000.0...1370.0 °C	-130.00...1831.9 °F 1832.0...2498.0 °F	±0.007 % full scale ±0.01 °C ±0.005 % full scale ±0.1 °C	±0.007 % full scale ±0.02 °F ±0.005 % full scale ±0.18 °F
<b>Type J</b>	FeCu-Ni	-90.00...900.00 °C	-130.00...1652.0 °F	±0.005 % full scale ±0.01 °C	±0.005 % full scale ±0.02 °F
<b>Type N</b>	NiCrSi - NiSiMg	-90.00...999.99 °C 1000.0...1370.0 °C	-130.00...1831.98 °F 1832.0...2498.0 °F	±0.007 % full scale ±0.01 °C ±0.005 % full scale ±0.1 °C	±0.007 % full scale ±0.02 °F ±0.005 % full scale ±0.18 °F
<b>Type E</b>	NiCr-CuNi	-90,00...700.00 °C	-130.00...1292.0 °F	±0.005 % full scale ±0.01 °C	±0.005 % full scale ±0.02 °F
<b>Type R</b>	Pt13Rh - Pt	0.00...999.99 °C 1000.0...1760.0 °C	32.00...1831.9 °F 1832.0...3200.0 °F	±0.05 % full scale ±0.01 °C ±0.03 % full scale ±0.1 °C	±0.05 % full scale ±0.02 °F ±0.03 % full scale ±0.18 °F
<b>Type T</b>	Cu-CuNi	-90.00...400.00 °C	-90.00...400.00 °F	±0.01 % full scale ±0.01 °C	±0.01 % full scale ±0.02 °F
<b>Type B</b>	Pt30Rh-Pt6Rh	0.00...999.99 °C 1000.0...1820.0 °C	32.00...1831.98 °F 1832.0...3308.0 °F	±0.05 % full scale ±0.01 °C ±0.03 % full scale ±0.1 °C	±0.05 % full scale ±0.02 °F ±0.03 % full scale ±0.18 °F
<b>Type S</b>	Pt10Rh-Pt	0.00...999.99 °C 1000.0...1760.0 °C	32.00...1831.98 °F 1832.0...3200.0 °F	±0.05 % full scale ±0.01 °C ±0.03 % full scale ±0.1 °C	±0.05 % full scale ±0.02 °F ±0.03 % full scale ±0.18 °F
<b>Type L</b>	Fe-CuNi	-90.00...900.00 °C	-130.00...1652.0 °F	±0.005 % full scale ±0.01 °C	±0.005 % full scale ±0.02 °F
<b>Type U</b>	Cu-CuNi	90.00...600.00 °C	194.00...1112.0 °F	±0.01 % full scale ±0.01 °C	±0.01 % full scale ±0.02 °F
Automatic comparison point compensation between 0 °C/32 °F and 60 °C/140 °F Accuracy of the comparison point Pt100 DIN class A Possibility of connection through 4 mm/0.16 in connections free of thermal voltage					
<b>Standard signal input</b>					
Current (switchable)	mA	0(4)...20 mA		±0.015 % full scale ±0.01 mA	
Transmitter supply 24 VDC, I <sub>max</sub> = 30 mA, Possibility of connection through 4 mm/0.16 in connections free of thermal voltage					
<b>Temperature switch</b>					
Automatic detection of an edge change, determining the hysteresis, Independent detection normally closed / normally open Potential-free input contacts (U <sub>max</sub> = 5 V, I <sub>max</sub> = 1 mA) Possibility of connection through 4 mm/0.16 in connections free of thermal voltage					
<b>Calibration reference sensor connection</b>					
Pt100	4-wire	-90.00...850.00 °C	-90.00...850.00 °F	±0.005 % full scale ±0.01 °C	±0.005 % full scale ±0.02 °F
Polynomial correctable through internal parameters or through external EEPROM inside the sensor Possibility of connection through 7-pin built-in socket					

Multi channel measuring instrument	Order code
8-channel measuring instrument	ET3849U0308003
SIKA-Works calibration certificate measuring inputs	EKTSCAN00000W
DAkKS-Certificate measuring inputs	EKTSCAN00000D
PC-Software (Block + measuring inputs)	EZ380000000001
Reference sensor TFEE 255-3-300 (-55...255 °C)	W033P413000XX002
Reference sensor TFEE 650-3-300 (-35...650 °C)	W034P413000XX002
Sensor specific linearization TFEE	EKTTEE-LIN0000
SIKA-Works certificate TF or TFEE	EKTMK0000000W
DAkKS-Certificate for TF or TFEE (-30...500°C)	EKTMK0000000D