

# Multi-channel measuring instrument TT-Scan for SIKA temperature calibrators



Via Italo Calvino 7  
Lotto 1 - Edificio A13-14  
20017 Rho (MI)

Tel. +39 02 36569371  
info@danetech.it  
www.danetech.it



TT-Scan

## Technical data

TT-Scan																
<b>Possibilities to connect</b>	<table border="1"> <thead> <tr> <th colspan="3">RTD</th> <th rowspan="2">TC</th> <th rowspan="2">mA</th> <th rowspan="2">Switch</th> </tr> <tr> <th>4-Wire</th> <th>3-Wire</th> <th>2-Wire</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	RTD			TC	mA	Switch	4-Wire	3-Wire	2-Wire						
RTD			TC	mA				Switch								
4-Wire	3-Wire	2-Wire														
<b>Type</b>	Multi-channel temperature measuring instrument for reading out DUTs on the temperature calibrator															
<b>Measuring inputs</b>	Switchable For up to 8 sensors Sensor type free configurable															
General data																
<b>Power supply</b>	230 VAC ±10 %, 50/60 Hz via adapter															
<b>Power consumption</b>	Approx. 10 W															
<b>Dimensions (D x W x H)</b>	200 x 140 + 40 x 380 mm <span style="float: right;">7.87 x 5.51 + 1.57 x 14.96 in</span>															
<b>Weight</b>	Approx. 2.5 kg <span style="float: right;">Approx. 5.51 lbs</span>															
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 calibration certificate, external calibration reference sensors															

# Multi-channel measuring instrument // Measuring inputs

## Technical data

	Type	Measuring range	Accuracy	
<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 / 0.16 in connections free of thermal voltage				
<b>Thermocouples according to DIN EN 60584 / DIN 43710</b>				
<b>Type K</b>	NiCr-Ni	-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				

## Article numbers

TT-Scan & accessories	Order code
8-channel measuring instrument TT-Scan	ET3849U0308003
SIKA-Works calibration certificate measuring inputs	EKTSCAN00000W
DAkKS-Certificate measuring inputs	EKTSCAN00000D
PC-Software (Temperature calibrator + TT-Scan)	EZ380000000001
Reference sensor TFEE 255-3-300 [-55...255 °C / -67...491 °F]	W033P413000XX002
Reference sensor TFEE 650-3-300 [-35...650 °C / -31...1202 °F]	W034P413000XX002
Sensor specific linearization TFEE	EKTTEE-LIN0000
SIKA-Works certificate TF or TFEE	EKTMK0000000W
DAkKS-Certificate for TF or TFEE [-30...500 °C / -22...1202 °F]	EKTMK0000000D