

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



TT-Scan

Technical data

| TT-Scan | | | | | | | | | | | | | | | | |
|---------------------------------|---|--------|----|----|----|----|--------|--------|--------|--------|--|--|--|--|--|--|
| Possibilities to connect | <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 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Type | Multi-channel temperature measuring instrument for reading out DUTs on the temperature calibrator | | | | | | | | | | | | | | | |
| 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 calibration certificate, external calibration reference sensors | | | | | | | | | | | | | | | |

Multi-channel measuring instrument // Measuring inputs

Technical data

| | Type | Measuring range | Accuracy | |
|--|-----------------|--|--|---|
| Resistance thermometer EN 60751 | | | | |
| Pt100 Pt500 Pt1000 | 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 | | | | |
| Thermocouples according to DIN EN 60584 / DIN 43710 | | | | |
| Type K | 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 |
| Type J | 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 |
| Type N | 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 |
| Type E | 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 |
| Type R | 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 |
| Type T | 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 |
| Type 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 |
| Type S | 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 |
| Type L | 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 |
| Type U | 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 | | | | |
| Standard signal input | | | | |
| Current (switchable) | mA | 0(4)...20 mA | | ±0.015 % full scale ±0.01 mA |
| Transmitter supply 24 VDC, I _{max} = 30 mA, Possibility of connection through 4 mm / 0.16 in connections free of thermal voltage | | | | |
| Temperature switch | | | | |
| Automatic detection of an edge change, determining the hysteresis, Independent detection normally closed / normally open Potential-free input contacts (U _{max} = 5 V, I _{max} = 1 mA) Possibility of connection through 4 mm / 0.16 in connections free of thermal voltage | | | | |
| Calibration reference sensor connection | | | | |
| 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 |