



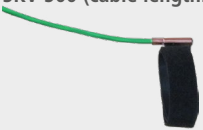

DATA SHEET

# Thermocouple probes for 2014 portable instruments

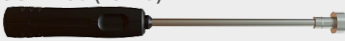



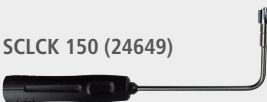





With sensitive element as per IEC 584-1, 2 and 3 standard

## Pipes




| References                                                                                                                                                                                            | Measuring range and probe with device accuracy | Response time<br>$T_{99}^{**}$ | Description                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|
| SKV 150 (cable length: 1.5 m) (17156)<br>SKV 300 (cable length: 3 m) (17157)<br>SKV 500 (cable length: 5 m) (17159)  | From -20 to +90 °C<br>±1.5 °C                  | 50 s                           | Contact probe with Velcro®. Velcro® fixation for Ø100 mm maxi pipes with cable (Tc K).          |
| SKCT (22226)                                                                                                        | From -40 to +150 °C<br>±2.5 °C                 | 15 s                           | Contact probe with lamella for pipe Ø10 to 50 mm with spring handle and straight cable. (Tc K). |

## Contact



| References                                                                                            | Measuring range and probe with device accuracy              | Response time<br>$T_{99}^{**}$ | Description                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCPK 150 (25729)   | From -20 to +150 °C<br>±1.5 °C*<br>±4% of reading ±1.5 °C** | 20 s                           | Contact probe with circular end, with handle, straight cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 13 mm                       |
| SCCK 150 (24855)   | From -20 to +150 °C<br>±1.5 °C*<br>±4% of reading ±1.5 °C** | 30 s                           | Contact probe with copper circular end for reduced space, with handle, coiled cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 6 mm |
| SCRK 150 (25111)   | From -20 to +150 °C<br>±1.5 °C*<br>±4% of reading ±1.5 °C** | 5 s                            | Spring contact probe for reduced space with handle, coiled cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 7 mm                    |
| SCLK 150 (24648)   | From -20 to +150 °C<br>±1.5 °C*<br>±4% of reading ±1.5 °C** | 5 s                            | Contact probe with lamella with handle and coiled cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 15 mm                            |
| SCLCK 150 (24649)  | From -20 to +150 °C<br>±2.5 °C                              | 5 s                            | Contact probe with lamella, angled at 90° with handle and coiled cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 15 mm             |
| SCLK-HT (24681)    | From -50 to +800 °C<br>±2.5 °C                              | 5 s                            | High temperature contact probe with lamella, with handle and coiled cable. (Tc K).<br>Contact tip length: 200 mm<br>Contact tip diameter: 27 mm          |
| SCLAIK (24716)     | From -40 to +250 °C<br>±1.5 °C                              | 5 s                            | Contact probe with magnetic lamella with straight cable. (Tc K).                                                                                         |
| SFCSMK (21254)     | From 0 to +400 °C<br>±1.5 °C*<br>±4% of reading ±1.5 °C**   | 4 s                            | Probe for surface measurement of moving part. Aluminium contact element on casters with handle and coiled cable. (Tc K).                                 |

\*Under laboratory condition / \*\*Under application condition





## Ambiance

| References                                                                                                                                                                                                                                                                      | Measuring range and probe with device accuracy | Response time<br>$T_{99}^{**}$ | Description                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SKA-110 (17155)<br>                                                                                                                                                                            | From -40 to +80 °C<br>$\pm 1.5$ °C             | 50 s                           | Ambient probe, direct output on compensated male miniature connector. Without handle or cable. (Tc K).<br>Contact tip length: 110 mm<br>Contact tip diameter: 4.5 mm |
| SAK-150 (24646)<br>                                                                                                                                                                            | From -40 to +250 °C<br>$\pm 1.5$ °C            | 50 s                           | Ambient probe with handle and coiled cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 4.5 mm                                                    |
| SAK-05 (cable length: 0.5 m) (24816)<br>SAK-1 (cable length: 1 m) (24817)<br>SAK-2 (cable length: 2 m) (24818)<br>SAK-5 (cable length: 5 m) (24819)<br>SAK-10 (cable length: 10 m) (24820)<br> | From -40 to +250 °C<br>$\pm 1.5$ °C            | 3 s                            | Ambient wired probe. Apparent welding, isolated PFA cable, output on compensated male miniature connector. (Tc K).                                                   |

## Penetration

| References                                                                                             | Measuring range and probe with device accuracy | Response time<br>$T_{99}^{**}$ | Description                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPK 150 (24650)<br>   | From -40 to +250 °C<br>$\pm 1.5$ °C            | 30 s                           | Penetration probe. Stainless steel contact tip with pointed contact tip, handle and coiled cable. (Tc K).<br>Contact tip length: 150 mm<br>Contact tip diameter: 4.5 mm |
| SPK 300 (24823)<br> | From -40 to +250 °C<br>$\pm 1.5$ °C            | 35 s                           | Penetration probe. Stainless steel contact tip with pointed contact tip, handle and coiled cable. (Tc K).<br>Contact tip length: 300 mm<br>Contact tip diameter: 4.5 mm |





## Immersion


| References                                                                                                                       | Measuring range and probe with device accuracy                                                                                           | Response time $T_{99}^{**}$ | Description                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIK 150 (24641)<br>SIK 250 (24642)<br>        | From -40 to +250 °C<br>$\pm 1.5$ °C                                                                                                      | 35 s                        | Immersion probe. Stainless steel contact tip, with handle and coiled cable. (Tc K).<br>Contact tip length: 150 mm / 250 mm<br>Contact tip diameter: 4.5 mm             |
| SIK 500 HT (24644)<br>SIK 1000 HT (24645)<br> | From -40 to +1000 °C<br>From -40 to +375 °C: $\pm 1.5$ °C<br>Remaining range: $\pm 0.4\%$ of reading                                     | 115 s                       | High temperature immersion probe. Inconel contact tip, with handle and coiled cable. (Tc K).<br>Contact tip length: 500 mm / 1000 mm<br>Contact tip diameter: 6 mm     |
| SIS 1000 HT (24830)<br>                       | From 0 to +1400 °C<br>From 0 to 1100 °C: $\pm 1$ °C<br>From 1100 to 1400 °C: $\pm 0.15\%$ of reading                                     | -                           | Very high temperature immersion probe. Ceramic contact tip with handle and straight cable. (Tc S).<br>Contact tip length: 1000 mm<br>Contact tip diameter: 8 mm        |
| SIT 300 BT (24831)<br>                        | From -200 to +50 °C<br>From -200 to -67 °C: $\pm 1.5\%$ of reading<br>From -67 to -40 °C: $\pm 1$ °C<br>From -40 to +50 °C: $\pm 0.5$ °C | 2 s                         | Very low temperature immersion probe. Deformable lined contact tip with handle and coiled cable. (Tc T).<br>Contact tip length: 300 mm<br>Contact tip diameter: 1.5 mm |

## Cables

| References                                                                   | Measuring range and probe with device accuracy | Response time $T_{99}^{**}$ | Description                                                                                            |
|------------------------------------------------------------------------------|------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|
| RTCK-150 (1.5 m) (24834)<br>RTCK-300 (3 m) (24835)<br>RTCK-500 (5 m) (24836) | From 0 to +100 °C                              | -                           | Shielded PVC extension for temperature probes with compensated male/female miniature connector (Tc K). |

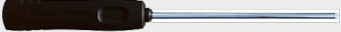




## Special for compost

| References                                                                                                                                                              | Measuring range and probe with device accuracy | Response time<br>$T_{99}^{**}$ | Description                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>SKP 1000 (1 m) (17160)<br>SKP 1500 (1.5 m) (17161)<br>SKP 2000 (2 m) (17163)       | From -20 to +150 °C<br>±1.5 °C                 | 165 s                          | Special compost probe, stainless steel protection sheath with pointed end. T-shaped handle and output on coiled cable. (Tc K). Contact tip diameter: 16 mm                                                                                                                                                                                                                                                             |
| <br>SKP 1000 B (1 m) (25820)<br>SKP 1500 B (1.5 m) (25821)<br>SKP 2000 B (2 m) (25822) | From -20 to +150 °C<br>±1.5 °C                 | 165 s                          | K thermocouple probe with housing, grounded hot junction, stainless steel protective sheath. T-shaped handle. IP67 housing with transparent cover, EPDM seal and machined foam for data loggers KTT 220, 320 or Wireless and LoRa® data loggers (supplied without data loggers). Housing horizontally mounted on the probe. Output on cable length 20 cm with miniature male compensated connector inside the housing. |
| <br>KSP (14809)                                                                        | -                                              | -                              | Galvanized plate for compost probe. Possible fixing with anti-theft device KAV of data loggers or magnetic fixing of protective housing. Factory mounting.                                                                                                                                                                                                                                                             |
| <br>KIT-KSP (24829)                                                                    | -                                              | -                              | Kit with a galvanized plate (KSP) for compost probe. Possible fixing with anti-theft device KAV of data loggers or magnetic fixing of protective housing and mountings accessories. To install after delivery.                                                                                                                                                                                                         |

 Probes compatible with Sauermann and Kimo devices.


## Pt100 temperature probes for 2014 portable instruments

Pt100 probes with class A sensitive element as per IEC60751 standard for classes 60 and 110

| References                                                                                                                | Measuring range and probe with device accuracy                                | Response time<br>$T_{99}^{**}$ | Description                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>SAP 150 (24656)                    | From -40 to +250 °C<br>±0.4% of reading ±0.3 °C                               | 115 s                          | Ambient probe. Perforated stainless steel contact tip, with handle, coiled cable and connector<br>Contact tip length: 150 mm<br>Contact tip diameter: 4.5 mm                      |
| <br>SCP 150 (24657)                    | From -20 to +150 °C<br>±0.4% of reading ±0.3 °C*<br>±6% of reading ±0.25 °C** | 150 s                          | Contact probe with circular end. Stainless steel contact tip, with handle, coiled cable and connector.<br>Contact tip length: 150 mm<br>Contact tip diameter: 13 mm               |
| <br>SIP 150 (24658)<br>SIP 250 (24659) | From -40 to +250 °C<br>±0.4% of reading ±0.3 °C                               | 35 s                           | Immersion probe. Stainless steel contact tip, with handle, coiled cable and connector.<br>Contact tip length: 150 mm (SIP 150) / 250 mm (SIP 250)<br>Contact tip diameter: 4.5 mm |
| <br>SIP 500 HT (24853)                 | From -40 to +400 °C<br>±0.4% of reading ±0.3 °C                               | 45 s                           | High temperature immersion probe. Stainless steel contact tip, with handle, coiled cable and connector.<br>Contact tip length: 500 mm<br>Contact tip diameter: 6 mm               |
| <br>SPP 150 (24660)                    | From -40 to +250 °C<br>±0.4% of reading ±0.3 °C                               | 35 s                           | Penetration probe. Stainless steel contact tip, with handle, coiled cable and connector.<br>Contact tip length: 150 mm<br>Contact tip diameter: 4.5 mm                            |

\*Under laboratory condition / \*\*Under application condition

Interchangeable Pt100 probes (SMART-2014) with class 1/3 DIN sensitive element as per IEC60751 standard for class 210 and class 310 portables

| References                           |                                                                                     | Measuring range and probe with device accuracy | Response time $T_{99}$ **                                                                                             | Description |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAPS 150 (24838)                     |    | Supplied with adjustment certificate           | From -40 to +250 °C<br>±0.3% of reading ±0.25 °C                                                                      | 115 s       | Ambient probe. Perforated stainless steel contact tip, integrated mini-DIN connector, SMART-2014 recognition system. Supplied with adjustment certificate. Contact tip length: 150 mm. Contact tip diameter: 4.5 mm                                                                                       |
| SCPS 150 (24839)                     |    | Supplied with adjustment certificate           | From -20 to +150 °C<br>±0.3% of reading ±0.25 °C*<br>±6% of reading ±0.25 °C**                                        | 150 s       | Contact probe with circular end. Stainless steel contact tip, integrated mini-DIN connector, SMART-2014 recognition system. Supplied with adjustment certificate. Contact tip length: 150 mm. Contact tip diameter: 13 mm                                                                                 |
| SIPS 150 (24840)<br>SIPS 250 (24841) |    | Supplied with adjustment certificate           | From -40 to +250 °C<br>±0.3% of reading ±0.25 °C                                                                      | 35 s        | Immersion probe. Stainless steel contact tip with handle, integrated mini-DIN connector. SMART-2014 recognition system. Supplied with adjustment certificate. Contact tip length: 150 mm (SIPS 150) / 250 mm (SIPS 250) Contact tip diameter: 4.5 mm                                                      |
| SIPS 500 HT (24845)                  |    | Supplied with adjustment certificate           | From -40 to +450 °C<br>±0.3% of reading ±0.25 °C                                                                      | 45 s        | High temperature immersion probe. Stainless steel contact tip with handle, integrated mini-DIN connector. SMART-2014 recognition system. Supplied with adjustment certificate. Contact tip length: 500 mm. Contact tip diameter: 6 mm                                                                     |
| SPPS 150 (24842)                     |    | Supplied with adjustment certificate           | From -40 to +250 °C<br>±0.3% of reading ±0.25 °C                                                                      | 35 s        | Penetration probe. Stainless steel contact tip with handle, integrated mini-DIN connector. SMART-2014 recognition system. Supplied with adjustment certificate. Contact tip length: 150 mm. Contact tip diameter: 4.5 mm                                                                                  |
| SPRP 300 (24846)                     |    | Supplied with calibration certificate          | From -200 to +500 °C<br>From -40 to +200 °C: ±0.15% of reading ±0.15 °C<br>Remaining range: ±0.3% of reading ±0.25 °C | 35 s        | Accurate immersion probe. Stainless steel contact tip with handle, integrated mini-DIN connector. SMART-2014 recognition system. Supplied with 3 points calibration certificate. Contact tip length: 300 mm. Contact tip diameter: 4.5 mm Only available with AMI10 and TM210.                            |
| SPRP 300 C (24847)                   |  | Supplied with calibration certificate          | From -200 to +500 °C<br>From -40 to +200 °C: ±0.15% of reading ±0.15 °C<br>Remaining range: ±0.3% of reading ±0.25 °C | 35 s        | Accurate immersion probe. Stainless steel contact tip with handle, integrated mini-DIN connector. SMART-2014 recognition system. Supplied with COFRAC (ISO 17025 standard) 3 points calibration certificate. Contact tip length: 300 mm Contact tip diameter: 4.5 mm Only available with AMI10 and TM210. |
| SAPF 150 (24793)                     |  | Supplied with adjustment certificate           | From -40 to +250 °C<br>±0.3% of reading ±0.25 °C                                                                      | 115 s       | Wireless ambient temperature probe. Perforated stainless steel contact tip. Wireless transmission system with handle and multifunction button. Supplied with adjustment certificate. Contact tip length: 150 mm Contact tip diameter: 4.5 mm                                                              |
| SIPF 150 (24795)                     |  | Supplied with adjustment certificate           | From -40 to +250 °C<br>±0.3% of reading ±0.25 °C                                                                      | 35 s        | Wireless immersion temperature probe. Stainless steel contact tip, wireless transmission system with handle and multifunction button. Supplied with adjustment certificate. Contact tip length: 150 mm Contact tip diameter: 4.5 mm                                                                       |

\*Under laboratory condition / \*\*Under application condition

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