

SIKA USA INC.  
**Temperature Calibrators**

Calibrators of Series TP 17 000 M contain an electrically controlled metal block with a bore for the insertion of the test piece. Adapter sleeves are used for small diameter test pieces. The block is mounted in a heat-insulated housing. The complete electronic unit is located in the front of the calibrator. The required temperature is easily set on the digital controller. The current temperature will automatically be adjusted to the set value. The current temperature and set temperature are constantly shown on the 2-line, 4-digit, 7-segment LED displays.

For inspection of:

- Thermometers – The inspection is performed by comparison of the temperature measured by the test piece and the block temperature indicated by the calibrator or calibration bath.
- Temperature Switches & Thermostats – The test piece is inserted into the block and connected to the external transducer. The switch setting respective to the switch point is signaled by reached temperature.
- Resistance Thermometers and Thermocouples – The inspection is performed by comparison of the temperature indicated on the external measuring instrument with the reference temperature of the calibrator or calibration bath.



| Order codes               |                                                                          |                                              |
|---------------------------|--------------------------------------------------------------------------|----------------------------------------------|
| SIKA-Code                 | TP17-165 M                                                               | TP17-650 M                                   |
| ISSA-Code                 | 61.180.01                                                                | 61.180.02                                    |
| IMPA-Code                 | 65 25 07                                                                 | 65 25 08 / 65 25 09                          |
| Type                      | TP 17 165 M                                                              | TP 17 650 M                                  |
| Temperature range*        | -35 °C up to 165 °C                                                      | Ambient temp. up to 650 °C                   |
| Block temperature control | Digital PID controller, automatic fine adjustment with softstart for fan |                                              |
| Accuracy                  | ±1 °C                                                                    | ±1 °C                                        |
| Stability                 | ±0.1 °C                                                                  |                                              |
| Block temperature display | 4-digit, 2-line, 7-segment LED, 7 mm high, red and green                 |                                              |
| Display range             | -50.0 °C up to 165.0 °C                                                  | 0.0 °C up to 650.0 °C                        |
| Resolution                | 1 °C                                                                     |                                              |
| Test piece fixture        |                                                                          |                                              |
| Block material            | Aluminium                                                                | Brass                                        |
| Block bore                | Ø 28 mm                                                                  | Ø 28 mm                                      |
| Block depth               | 150 mm                                                                   |                                              |
| Adapter sleeves           | Inside diameter<br>between 1.5 mm and 25 mm in steps of 0.5 mm           |                                              |
| General data              |                                                                          |                                              |
| Power supply              | 100...240 VAC, 50 / 60 Hz                                                | 230 / 240 VAC, 50 / 60 Hz                    |
| Power consumption         | Approx. 375 W                                                            | Approx. 1000 W                               |
| Dimensions L x W x H      | Approx. 210 x 380 + 50 x 300 mm                                          | Approx. 150 x 330 + 70 x 270 mm              |
| Weight                    | Approx. 10.0 kg                                                          | Approx. 7.5 kg                               |
| Options                   |                                                                          |                                              |
| Accessories               | Aluminium transport case                                                 | Aluminium transport case, nylon service case |
| Power supply              | 100...240 VAC, 50 / 60 Hz                                                | 100...240 VAC, 50 / 60 Hz                    |
| Certificate               | Including a SIKA Calibration Test Certificate                            |                                              |
| Engineering unit          | Displays in both °C & °F                                                 |                                              |

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