

Sensor tester

Туре 5495С...

Test device for checking the sensitivity of cavity pressure and temperature sensors

Battery-powered test device that measures the insulation resistance, pressure sensitivity and temperature of installed cavity pressure and temperature sensors. It can also be used to check the input of a charge amplifier.

- Simple on-site validation of installed cavity pressure and temperature sensors
- User friendly application with wireless controlled test pin
- Digital display of the measurement results in pC/bar and °C
- Analysis possibilities of p- and T-sensors as well as p/T sensors
- The measuring chain can be fully tested by defined charge generation
- Operation via touch screen

Description

The test device was developed for inspecting Kistler cavity pressure and temperature sensors that are installed in a mold. It is used for measuring the insulation resistance as well as the charge sensitivity and temperature. The absolute temperature value can also be displayed. The sensor tester can generate a defined charge, so the measuring chain of sensor, cable and charge amplifier can be fully tested. The sensor tester is available as a single device and as a test set with complete accessories for single- and multi-channel measurement.





Technical data

| Dimensions (LxWxH) | mm | 200x105x34 |
|-------------------------------------|-----------|-------------------|
| Weight | g | 570 |
| Display: | | |
| Active resistive touch surface | mm | 95.04x53.86 |
| Screen size | " | 4.3 |
| Resolution | Pixel | 800x480 |
| Colors | | 262.144 |
| Connections: | | |
| BNC socket for measuring channel | for cha | rge measurement |
| Series 102 Fischer connector for th | ermoco | uple type J, K, N |
| 15-pin D-Sub socket for external t | emperat | ure amplifier |
| Antenna connection | | |
| Ext. power supply voltage: 2.5 mm | ı jack 1) | |
| Power supply: | | |
| Battery capacity | | 6.200 mAh |
| Power supply | | 5 VDC >4A |
| Power consumption handheld | W | >12 |
| (with battery charge) | | |
| Power consumption test pin | | 6-7 |
| (with battery charge) | | |
| Operating time (battery) | h | >8 |
| Measuring ranges | | |
| (automatic range switching): | | |
| Permitted test force for | | |
| Sensors with diaphragm | N | 30 60 |
| Standard sensors | N | 60 120 |
| Temperature | | |
| Thermocouple J, K, N | °C | 0 150 |
| With Type 2205A | °C | 0 400 |
| Measurement error: | | |
| Charge input | % | <0.5 |
| Charge generation | % | <5 |
| Temperature measurement, relative | °C | <2.0 |
| Temperature measurement, absolute | °C | <1.0 |
| (Type 2205A) | | |

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Equipment list

| Name | Туре | 5495C0 | 5495C1 | 5495C2 | 5495C3 |
|--|-------------|--------|--------|--------|--------|
| Sensor tester (basic device) | 5495C0 | x | x | x | x |
| Pressure test pin | Z22016AWD | | x | x | x |
| Active antennas (x2) | 65022275 | | x | x | x |
| Case | 22009601 | | x | x | x |
| Power supply | 65022292 | | x | x | x |
| Adapter for 1 mm sensors (I = 17 mm) | 65014618 | | | x | x |
| Adapter for diaphragm sensors | 55124493 | | | x | x |
| Connecting cable for 4-channel connector type 1722A4 | KIG4895A0,5 | | | | x |
| Connecting cable for 8-channel connector type 1722A8 | KIG4896A0,5 | | | | x |
| Extension cable coaxial, Fischer-BNC | 1667B2 | | | | x |
| Cable for charge generation BNC pos. – Qout-plug | Z22116A1EWD | | | | x |
| Kistler USB Memory Stick 8GB | 22000444 | | x | x | x |

All parts in the equipment list can be ordered individually.

Application

The following sensor types can be analyzed:

- Cavity pressure
- Temperature
- · Cavity pressure and temperature combined

It is also possible to check the charge inputs of a charge amplifier.

Cavity pressure:

After connecting a cavity pressure sensor to the test device, a function test (proper wiring, etc.) as well as an insulation measurement of the measuring chain can be performed.

Using the pressure test pin (included in the test set), it is also possible to determine the sensitivity of direct and indirect cavity pressure sensors.

Temperature:

If the sensor tester is connected to a temperature sensor, a function test of the measuring chain can be performed either with or without an external temperature amplifier.

Connections:

• BNC socket for measuring charge sensitivity



• Socket for active antenna and charge generation



• Series 102 Fischer connector for thermocouple type J, K, N



• 15-pin D-Sub socket for external temperature amplifier



Power supply socket



- USB port and SD Slot ¹⁾
- ¹⁾ No function in the C-version.

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Optional accessories

ComoNeo

4-channel extension cable to thermocouple amplifier Type 2205... at mold

| Length I = 2 m | 1491A1A2 |
|--|-----------|
| Length I = 5 m | 1491A1A5 |
| Length to customer order | 1491A1Asp |
| (Lmin = 0.3 m/Lmax = 20 m) | |

CoMo Injection

4-channel extension cables for connecting thermocouple amplifier Type 2205... or junction box Type 5689A10

length I – 1

| Length I = 1 m | 1457A1A1 |
|--|-----------|
| Length I = 2 m | 1457A1A2 |
| Length I = 5 m | 1457A1A5 |
| Length to customer order | 1457A1Asp |
| | |

(Lmin = 1 m/Lmax = 15 m)

Adapter

| Adapter for 1 mm Sensors (I = 42 mm) | 55242612 |
|--------------------------------------|----------|
|--------------------------------------|----------|

| Ordering key | Type 549 | 5C 🗍 |
|--|-----------------|------|
| Sensor tester Basic device | 0 | |
| Sensor tester with test set Test pin, antennas, case, power supply | 1 | |
| Sensor tester with test set, adapter Test pin, antennas, case, power supply, Adapter for 1mm sensors and sensors with diaphragm | 2 | |
| Sensor tester with test set, adapter and cable Test pin, antennas, case, power supply, Adapter for 1mm sensors and sensors with diaphragm, Connecting cable for 4- and 8-channel connecto Extension cable coaxial, Fischer-BNC | 3 ır, | |

Details see above in the equipment list.

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