

## testo 550s

### Digital manifold

Digital manifold with Bluetooth and 2-way valve block for commissioning, servicing and maintenance of refrigeration systems and heat pumps

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Large graphic display shows all results at a glance

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Simple wireless humidity, temperature, and vacuum measurements via Bluetooth connectivity

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Fast and easy pressure value display in analog look

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Rugged housing with IP 54 for maximum reliability in daily use

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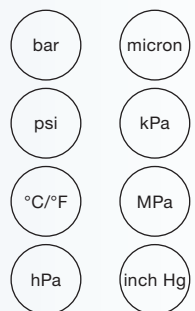
Refrigerant listing updates automatically using the App

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Integrated calculation of the target superheat

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Easy to Use



The testo 550s digital manifold with 2-way valve block enables you to carry out your measurements on refrigeration, air conditioning systems, and heat pumps fast. The large display helps evaluate the results in graphic forms. Stored programs guide you through measurements and enable the automatic determination of numerous important system parameters such as superheating/subcooling, target superheat, cooling/heating capacity and many other areas.

Bluetooth probes for temperature, vacuum, and humidity can be easily connected and offer maximum flexibility in their application. In conjunction with the testo Smart App, you can take care of digital documentation directly on site.

Its proven quality and great durability guarantee the continuously high performance of your manifold in all conditions.

## Technical data/accessories/kits

### General technical data

|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Operating temperature          | 14 to 122 °F                                                                                           |
| Storage temperature            | -4 to 140 °F                                                                                           |
| Battery type                   | 4 AA batteries                                                                                         |
| Battery life                   | 250 hrs with no illumination, no Bluetooth®<br>100 hrs with illumination and Bluetooth®                |
| Auto power off                 | After 10 minutes when not connected via Bluetooth                                                      |
| Dimensions                     | 8.3 x 4.8 x 2.4 in                                                                                     |
| Weight                         | 1.8 lbs                                                                                                |
| Protection class               | IP54                                                                                                   |
| Bluetooth technology/<br>range | Bluetooth® 5.0 (up to 500 ft)                                                                          |
| Compatibility                  | requires iOS 11.0 or newer/Android 6.0 or newer<br>requires mobile terminal device with Bluetooth® 4.0 |

### Sensor types

|                          | Pressure                         | Temperature       |
|--------------------------|----------------------------------|-------------------|
| Measuring range          | -14 to 870 psi<br>(-1 to 60 bar) | -58 to 302 °F     |
| Accuracy<br>(at 71.6 °F) | ±0.5% fs                         | ±0.9 °F           |
| Resolution               | 0.1 psi (0.01 bar)               | 0.1 °F            |
| Probe connections        | 3 x 7/16" – UNF                  | 2 x plug-in (NTC) |
| Overload                 | 940 psi                          | –                 |

### Measuring instrument accessories

|                                                                                                                                                                    | Order no. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Magnetic belt for digital manifolds for flexible use of the magnet or hook thanks to a simple exchange system, compatible with all digital manifolds from Testo    | 0564 1001 |
| Valve spare parts kit; exchange of 2 valve positioners with 4 valve positioner covers (red, blue and 2 x black), compatible with all digital manifolds from Testo. | 0554 5570 |

### testo 550s kits

|                                                           | testo 550s Basic Kit<br>Smart 2-valve digital manifold with wired cable temperature probes | testo 550s Smart Kit<br>Smart 2-valve digital manifold with wireless temperature probes" | testo 550s Smart Kit with Vacuum<br>Smart 2-valve digital manifold with wireless vacuum and temperature probes | testo 550s Smart Kit with hoses<br>Smart digital manifold with wireless vacuum and temperature probes incl. hose set (3 pcs.) |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                           |         |       |                            |                                          |
| Order no.                                                 | 0564 5501 01                                                                               | 0564 5502 01                                                                             | 0564 5504 01                                                                                                   | 0564 5505 01                                                                                                                  |
| Kit components                                            |                                                                                            |                                                                                          |                                                                                                                |                                                                                                                               |
| testo 550s Smart digital manifold                         | ✓                                                                                          | ✓                                                                                        | ✓                                                                                                              | ✓                                                                                                                             |
| Calibration protocol                                      | ✓                                                                                          | ✓                                                                                        | ✓                                                                                                              | ✓                                                                                                                             |
| Clamp temperature probe kit                               | ✓                                                                                          |                                                                                          |                                                                                                                |                                                                                                                               |
| testo 115i (Smart Probe) Wireless clamp temperature probe |                                                                                            | ✓<br>2 x                                                                                 | ✓<br>2 x                                                                                                       | ✓<br>2 x                                                                                                                      |
| testo 552i (Smart Probe) Wireless vacuum probe            |                                                                                            |                                                                                          | ✓                                                                                                              | ✓                                                                                                                             |
| Hose filling set (3 hoses)                                |                                                                                            |                                                                                          |                                                                                                                | ✓                                                                                                                             |
| Instrument case                                           | ✓                                                                                          | ✓                                                                                        | ✓                                                                                                              | ✓                                                                                                                             |

# Testo Smart Probes

## testo 115i

testo 115i, clamp thermometer operated with smartphone, for measurement on pipelines with diameters of 0.2 to 1.4 inches, including batteries and calibration protocol

Order no. 0560 2115 02



| Sensor type            | NTC                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Measuring range        | -40 to 302 °F                                                                                          |
| Accuracy<br>±1 digit   | ±2.3 °F (-4 to 185 °F)                                                                                 |
| Resolution             | 0.18 °F                                                                                                |
| General technical data |                                                                                                        |
| Compatibility          | requires iOS 11.0 or newer/Android 6.0 or newer<br>requires mobile terminal device with Bluetooth® 4.0 |
| Storage temperature    | -4 to 140 °F                                                                                           |
| Operating temperature  | -4 to 122 °F                                                                                           |
| Battery type           | 3 AAA batteries                                                                                        |
| Battery life           | 150 hrs                                                                                                |
| Dimensions             | 7.2 x 3.5 x 1.2 in                                                                                     |
| Bluetooth® range       | up to 325 ft                                                                                           |
| Weight                 | 4.5 oz.                                                                                                |

## testo 552i

testo 552i, app-controlled wireless vacuum probe, including batteries and calibration protocol

Order no. 0564 2552 01



| Sensor type            | Pressure                                                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| Measuring range        | 0 to 20,000 microns (0 to 26.7 mbar)                                                                         |
| Accuracy<br>±1 digit   | ±10 microns + 10% of m.v.<br>(100 to 1,000 microns)                                                          |
| Resolution             | 1 micron (0 to 1,000 microns)<br>10 microns (1,000 to 2,000 microns)<br>100 microns (2,000 to 5,000 microns) |
| Connection             | 7/16" – UNF                                                                                                  |
| Overload               | 87 psi (relative: 72 psi)                                                                                    |
| General technical data |                                                                                                              |
| Connection             | Bluetooth 5.0                                                                                                |
| Bluetooth® range       | up to 425 feet                                                                                               |
| Storage temperature    | -4 to 122 °F                                                                                                 |
| Operating temperature  | -14 to 122 °F                                                                                                |
| Battery type           | 3 AAA batteries                                                                                              |
| Battery life           | 39 hrs                                                                                                       |
| Auto power off         | After 10 minutes when not connected via Bluetooth                                                            |
| Protection class       | IP54                                                                                                         |
| Dimensions             | 5.9 x 1.3 x 1.2 in                                                                                           |
| Weight                 | 5 oz                                                                                                         |

## testo 605i

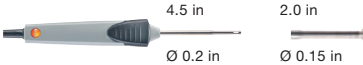
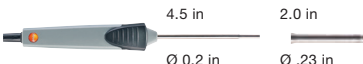
testo 605i, thermohygrometer operated with smartphone, including batteries and calibration protocol

Order no. 0560 2605 02



| Sensor type                        | Humidity – capacitive                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Measuring range                    | 0 to 100 %RH                                                                                                   |
| Accuracy<br>(at 77 °F)<br>±1 digit | ±3.0 %RH (10 to 35 %RH)<br>±2.0 %RH (35 to 65 %RH)<br>±3.0 %RH (65 to 90 %RH)<br>±5 %RH (< 10 %RH or > 90 %RH) |
| Resolution                         | 0.1 %RH                                                                                                        |
| Sensor type                        | NTC                                                                                                            |
| Measuring range                    | -4 to 140 °F                                                                                                   |
| Accuracy<br>±1 digit               | ±1.4 °F (-4 to 32 °F)<br>±0.9 °F (32 to 140 °F)                                                                |
| Resolution                         | 0.1 °F                                                                                                         |
| General technical data             |                                                                                                                |
| Compatibility                      | requires iOS 11.0 or newer/Android 6.0 or newer<br>requires mobile terminal device with Bluetooth® 4.0         |
| Storage temperature                | -4 to 140 °F                                                                                                   |
| Operating temperature              | -4 to 122 °F                                                                                                   |
| Battery type                       | 3 AAA batteries                                                                                                |
| Battery life                       | 150 hrs                                                                                                        |
| Dimensions                         | 8.5 x 1.2 x 1.0 in<br>2.9 inch probe shaft                                                                     |
| Bluetooth® range                   | up to 325 ft                                                                                                   |
| Weight                             | 3.1 oz.                                                                                                        |

## Available Probes

| Probe type                                                                                                            | Dimensions<br>Probe shaft/probe shaft tip                                           | Measuring<br>range                                                           | Accuracy                                                                                                | Order no. |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------|
| <b>Air probe</b>                                                                                                      |                                                                                     |                                                                              |                                                                                                         |           |
| Precise, rugged NTC air probe                                                                                         |    | -58 to 257 °F                                                                | ±0.4 °F (-13 to 176 °F)<br>±0.7 °F (remaining meas. range)                                              | 0613 1712 |
| <b>Surface probe</b>                                                                                                  |                                                                                     |                                                                              |                                                                                                         |           |
| Clamp probe for temperature in kit for measurements on pipes from 0.2 to 1.4 inch diameter, NTC, fixed cable (5 feet) |    | -40 to 257 °F                                                                | ±1.8 °F (-4 to 185 °F)                                                                                  | 0613 5507 |
| Clamp probe for temperature measurements on pipes from 0.2 to 1.4 inch diameter, NTC, fixed cable (5 feet)            |    | -40 to 257 °F                                                                | ±1.8 °F (-4 to 185 °F)                                                                                  | 0613 5505 |
| Clamp probe for temperature measurements on pipes from 0.2 to 1.4 inch diameter, NTC, fixed cable (16 feet)           |   | -40 to 257 °F                                                                | ±1.8 °F (-4 to 185 °F)                                                                                  | 0613 5506 |
| Pipe wrap probe with Velcro tape for pipe diameters of up to 3 inches, Tmax 167 °F, NTC, fixed cable (5 feet)         |  | -58 to 158 °F                                                                | ±0.4 °F (-13 to 158 °F)<br>±0.7 °F (-58 to -13.1 °F)                                                    | 0613 4611 |
| Pipe wrap probe (NTC) for pipe diameters of 0.2 to 2.6 inches, fixed cable (9 feet)                                   |  | -58 to 248 °F                                                                | ±0.4 °F (-13 to 176 °F)                                                                                 | 0613 5605 |
| Watertight NTC surface probe for flat surfaces, fixed cable (4 feet)                                                  |  | -58 to 158 °F<br>Long-term measuring range 257 °F briefly 302 °F (2 minutes) | ±0.5% of measured value (212 to 302 °F)<br>±0.4 °F (-13 to 166.8 °F)<br>±0.9 °F (remaining meas. range) | 0613 1912 |

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Subject to change, including technical modifications.