



Digital, not analogue: One manifold for all refrigeration systems.

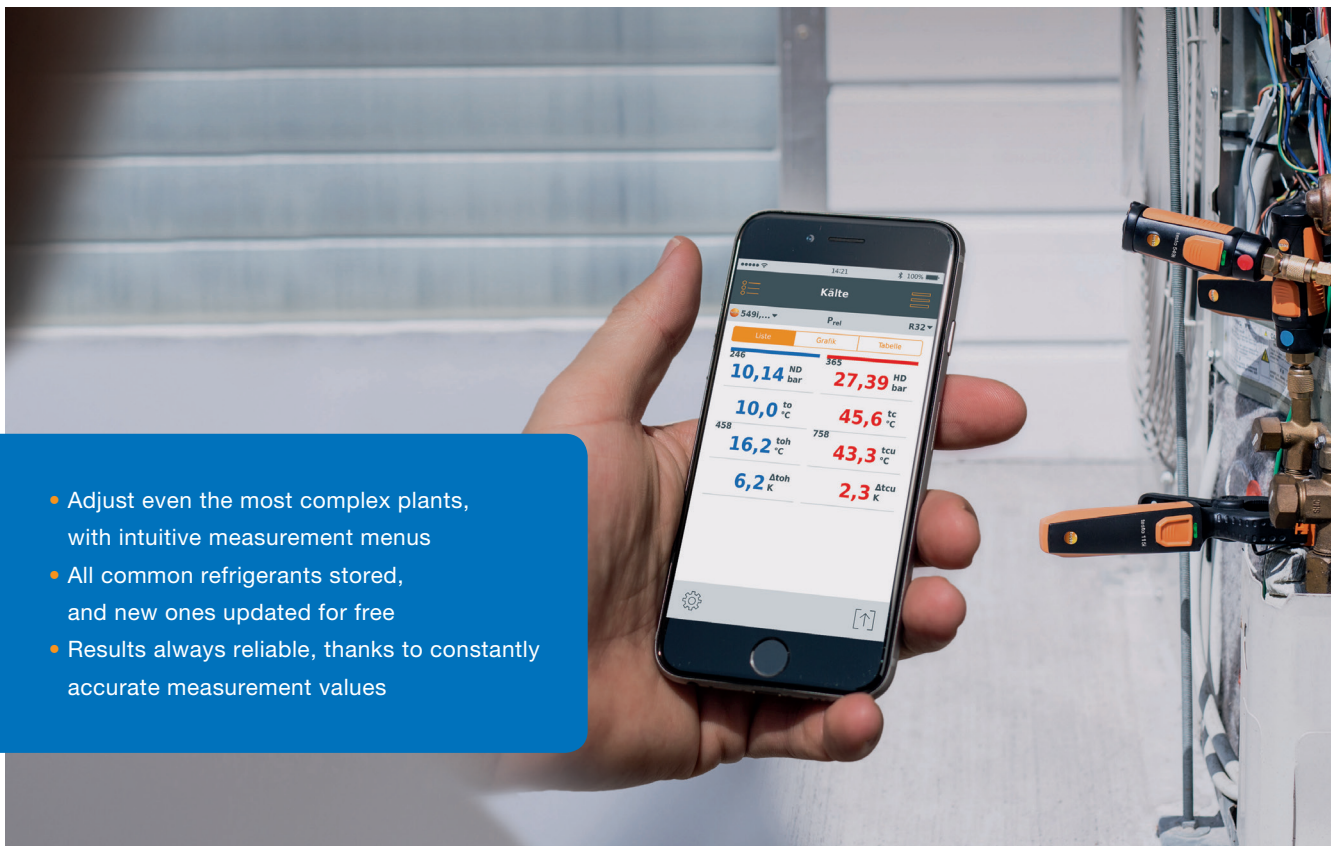
Testo refrigeration measurement technology –
intuitive, efficient, reliable:
Welcome to the Smart World of Testo.

Why wait? Digital refrigeration measurement technology from Testo.

The world of refrigeration and air-conditioning technology is ever changing, with a move towards new refrigerants with low-GWP, and now is the time to ensure that you have the optimum way to have precise and accurate measurements during all future servicing or commissioning requirements.

For many years digital refrigeration manifolds from Testo have proven their worth by giving engineers benefits such as:

- Automatic updates to new refrigerants via Te Refrigeration App.
- Compatibility with the latest A2L refrigerants, such as R32.
- Automatic display and calculation of system parameters such as pressures, temperatures, superheat and subcooling.
- Far more precise measurement results than can be offered by analogue technology.
- Test modes for temperature compensated pressure leak testing, and system evacuation.
- Free Refrigeration App allows simple 'on-site' reporting and documentation



- Adjust even the most complex plants, with intuitive measurement menus
- All common refrigerants stored, and new ones updated for free
- Results always reliable, thanks to constantly accurate measurement values

Manifolds in comparison: Digital vs. analogue.



More precise values with constant accuracy.

Digital:

- ✓ ±0.3 bar accuracy over a measuring range up to 60 bar
- ✓ Unambiguous and clear measurement value indication on large, illuminated display

Analogue:

- ✗ Typically ±0.7 bar accuracy over a measuring range up to 35 bar
- ✗ Readout error due to mechanical display and lack of light



All refrigerants available.

Digital:

- ✓ Minimum of 60 refrigerants available at all times
- ✓ New refrigerants available later, free of charge via the testo refrigeration App and testo Smart Probes App

Analogue:

- ✗ A maximum of only 4 refrigerants shown on the display
- ✗ Indication of new refrigerants only possible through new purchase



Intuitive operation.

Digital:

- ✓ Automatic calculation of evaporation and condensation temperature, as well as superheating and sub-cooling
- ✓ Efficient and convenient work thanks to user-oriented menu guide

Analogue:

- ✗ Error-prone, manual calculation of superheating and subcooling necessary
- ✗ No user-oriented menu guide



More efficient work.

Digital:

- ✓ Display of measurement value progression in real time
- ✓ Convenient operation/display from up to 20 m distance by App
- ✓ Reliable, easy documentation

Analogue:

- ✗ Display of only the current reading
- ✗ Operation only possible at measurement site
- ✗ Error-prone, manual documentation

Perfect for service: Digital manifolds.

Digital manifold **testo 550**

- Automatic calculation of superheating/subcooling, evaporation and condensation temperature
- 60 refrigerants, user-optimised operation and testo refrigeration App, including documentation and refrigerant updates
- Measuring ranges: -50 to +150 °C; -1 to +60 bar
- Temperature compensated pressure test function



- **Digital manifold **testo 550 kit with 3 hoses****
For service and maintenance on refrigeration systems and heat pumps; includes 2 temperature clamp probes, 3 hoses (1.5m length), batteries, case and calibration protocol

Order no. 0563 2551



- **Digital manifold **testo 550 kit without hoses****

Includes 2 temperature clamp probes, batteries, case and calibration protocol
Order no. 0563 1551

Digital manifold **testo 557**

- Automatic calculation of superheating/subcooling, evaporation and condensation temperature
- Precise, external vacuum probe for secure evacuation
- 60 refrigerants, user-optimised operation and testo refrigeration App, includes documentation and refrigerant updates
- Measuring ranges: -50 to +150 °C; -1 to +60 bar
- Temperature compensated pressure test function



- **Digital manifold **testo 557 kit with 4 hoses****
For commissioning, service and maintenance on refrigeration systems and heat pumps; includes 2 clamp probes, 4 hoses (1.5m length), batteries, case and calibration protocol

Order no. 0563 2558

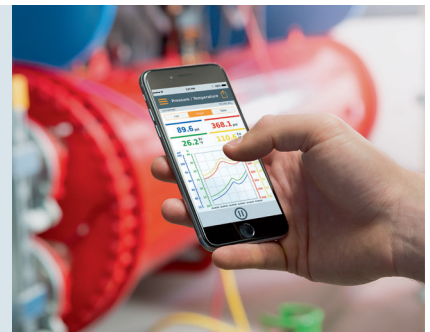


- **Digital manifold **testo 557 kit without hoses****

Includes 2 temperature clamp probes, batteries, case and calibration protocol
Order no. 0563 1558

The **testo refrigeration App**

- Work from up to 20 m distance with smartphone/tablet
- Save measurement results as a PDF or Excel (.csv), add photos and send directly by email
- Automatic, free updates with new refrigerants



Perfect for testing: Testo Smart Probes:

testo Smart Probes Refrigeration Kit

- Ideal for fast testing of heat pumps, air conditioning and refrigeration systems: 2 high-pressure measuring instruments (testo 549i) and 2 clamp thermometers (testo 115i) in testo HVAC softcase
- Operation with the testo Smart Probes App and your smartphone/tablet
- Low refrigerant loss thanks to hoseless application
- Over 80 refrigerants stored
- Automatic determination of superheating and subcooling as well as evaporation and condensation temperature
- Measuring ranges: -40 to +150 °C; -1 to +60 bar



Testo Smart Probes Refrigeration Kit

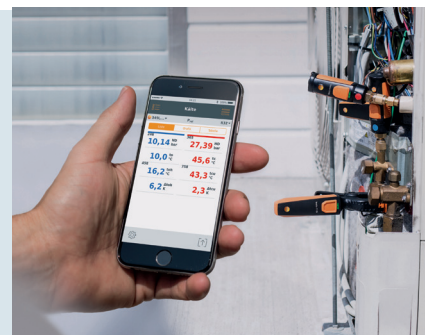
Contains 2 testo 115i clamp thermometers and 2 testo 549i high pressure gauges in a testo Smart Case

Order no. 0563 0002









The testo Smart Probes App

- Display of the measurement value progression as a graph or table
- Simultaneous display of up to 6 testo Smart Probes
- Stored menus for, among others, automatic calculation of evaporation and condensation temperature, as well as superheating and sub-cooling
- Save measurement results as a PDF or Excel (.csv), add photos and send by email while still at the measurement site



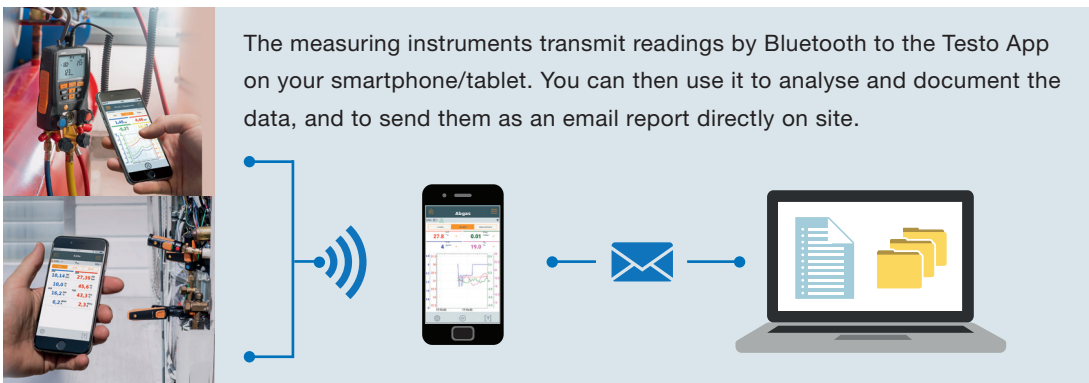
Digital refrigeration measurement technology from Testo **in comparison.**

Spur-of-the-moment tests, repairs and maintenance, or more complex commissioning and service measurements? Whatever you need digital refrigeration instruments for – you are certain to find what you are looking for in the extensive Testo product range. Compare and decide.

Products in comparison	 Analogue	 testo Smart Probes Refrigeration Kit	 testo 549	 testo 550	 testo 557	 testo 570
Identical pressure measuring range HP/LP	–	up to 60 bar	up to 60 bar	up to 60 bar	up to 60 bar	up to 50 bar
Pressure measurement accuracy	> 1 % of f.v.	> 0.5 % of f.v.	> 0.5 % of f.v.	> 0.5 % of f.v.	> 0.5 % of f.v.	> 0.5 % of f.v.
Integrated temperature measurement	–	✓	✓ (up to 2 temperature probes)	✓ (up to 2 temperature probes)	✓ (up to 2 temperature probes)	✓ (up to 3 temperature probes)
Four-way valve manifold	Product-dependent	–	–	–	✓	✓
Internal memory, documentation	–	With the App	With the App	With the App	With the App	✓
Refrigerants stored	max. 4	> 80	60	60	60	40
Refrigerant update by customer	–	Possible on site via App	–	Possible on site via App	Possible on site via App	Via testo EasyKool software
Automatic absolute pressure measurement	–	–	–	–	✓	✓
Heat pump mode	–	–	✓	✓	✓	✓
Temperature-compensated leakage testing	–	–	✓	✓	✓	✓
Vacuum measurement	–	–	indication	indication	Highly precise, with external probe	accurate and robust
Via testo EasyKool software	–	–	–	–	–	✓
App and Bluetooth	–	✓	–	✓	✓	–

Measurement by App – more efficient than ever before.

- Simplified operation of the measuring instruments – either completely by App (Testo Smart Probes) or for monitoring and documenting the measurement (testo 550, testo 557)
- Free refrigerant updates
- Measurement data are always to hand right where they are needed
- Simplified documentation – completely digital and without bothersome paperwork
- User-optimised measurement menus make measurement tasks more efficient and convenient



Which App does what?	testo Smart Probes App	testo refrigeration App:
Compatible measuring instruments	all testo Smart Probes, testo 552 and testo 770-3	testo 550, testo 557
iOS/Android	✓	✓
Over 60 common refrigerants with free updates	✓	✓
Control of the measuring instrument	✓	✗
Graphical representation of the readings	✓	✓
Calculation of superheating/subcooling, target superheating, temperature-compensated tightness test	✓	✓
Calculation of heating and cooling performance	✓	✗
Send PDF protocols with photos and comments in e-mails	✓	✓

Other manifolds and vacuum measuring instruments for AC and refrigeration professionals.

Digital manifold **testo 549**

- Automatic calculation of superheating/subcooling, evaporation and condensation temperature
- 60 refrigerants, user-optimised operation, 2 inputs for temperature probes
- Measuring ranges: -50 to +150 °C; -1 to +60 bar

Order no. 0560 0550



Digital manifold **testo 570-1 kit**

- Automatic calculation of superheating/subcooling, evaporation and condensation temperature
- 40 refrigerants, 999 h measurement value recording, user-optimised operation including evacuation
- Measuring ranges: -50 to +150 °C; -1 to +60 bar

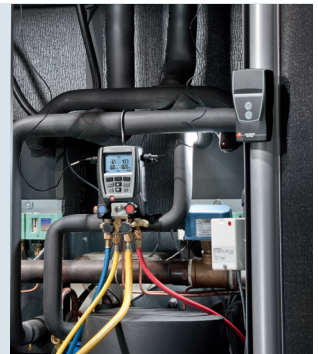
Order no. 0563 5701



Digital manifold **testo 570-2 kit**

- Automatic calculation of superheating/subcooling, evaporation and condensation temperature
- 40 refrigerants, 999 h measurement value recording, user-optimised operation including evacuation
- Measuring ranges: -50 to +150 °C; -1 to +60 bar
- With demo version PC software testo EasyKool

Order no. 0563 5702



Vacuum measuring instrument **testo 552**

- Robust and precise, for evacuation
- Absolute pressure measurement up to 26.6 mbar/20,000 micron
- Monitoring of data via bluetooth with testo Smart Probes App

Order no. 0560 5522



testo 316-3

Leakage detector for refrigerants

- Detects all common refrigerants: HFC, HCFC, CFC including R32, R448A, R449A
- Sensitivity: < 4 g
- Fulfils F-gases regulation

Order no. 0563 3163



testo 316-4

Leakage detector

- Detects the smallest leaks
- Optical and audible alarm
- Sensitivity: 3 g/a
- Permanent sensor check, ensuring that your work is both safe and fast

Order no. 0563 3164

