Committing to the future

The digital manifold **testo 550**, ideal for all measurement work on refirgeration systems and heat pumps

The new digital manifold testo 550 offers an unbeatable proce/performance ratio, and advantages such as these:

testo 550: just switch on, measure, and read off

Large figures allow the values to be read off the display quickly and easily. Two temperature-compensated pressure sensors measure high and low pressure quickly and precisely, and automatically calculate the temperatures. **A glance at the instrument display is enough, and you see the measurement result.**

Two temperature inputs guarantee you the simultaneous calculation and display of superheating and subcooling. The temperature can additionally also be displayed. **By simply pressing a button, you can switch between the measurement tasks at your will.**

When commissioning a system with the testo 550, you benefit twice:

1. The vacuum display supports you in evacuating the system.
2. Is the system really tight? With the tightness test function of the testo 550, by measuring the system pressure and the ambient temperature over a certain period of time, a statement can be made.

This allows you to adjust your system reliably.

testo 550 is more than just user comfort – unconditionally

The intuitive operation guarantees you immediate familiarity with the digital manifold. The backlit display ensures you always have a good clear view of the measurement values – even when it is dark in the room. Two practical direct buttons offer you a further advantage – one for the display of MIN/MAX/MEAN, and the other for instant access to 33 selectable refrigerants. Refrigerant flow can be monitored in the integrated sight glass. The three hose holders are used for the easy attachment of the refrigerant hoses to the valve block.

testo 550, a good decision – from the very beginning!

testo 550 with built-in impact protection

The new testo 550 has a robust 2-way valve block with 3 connections and 3 hose holders. The solid housing protects from knocks. During measurement, the suspension hook provides secure attachment of the manifold.

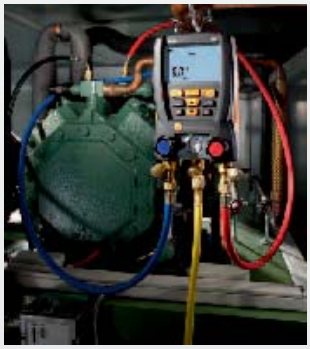
Just made for tough applications!

The new digital manifold testo 550 helps in daily work on refrigeration systems and heat pumps

testo 550 supports in all measurement tasks, e. g.:

Condensation and evaporation

testo 550 measures high and low pressure quickly and precisely, and automatically calculates the temperatures.



Evacuation

The vacuum display supports in the evacuation of the system and indicates the vacuum reached.

Heat pump mode

There is no longer any need to change the hoses when servicing reversible-cycle air conditioning systems. The digital manifold testo 550 automatically switches over the display of the high and low pressure.

Superheating and subcooling

Simultaneous calculation of superheating and subcooling thanks to two externally connectable temperature probes. This is possible with the clamp probe for temperaturer measurements on pipes, for example. It is included in delivery. It is simply clamped onto the pipe, and reacts quickly to record the surface temperature.
Both temperatures can be measured simulraneously, thus saving precious time.

Temperature-compensated tightness test

Thanks to the temperature-compensated tightness test, users cantest their systems for tightness with the manifold testo 550. This is done simply by measuring the system pressure and the ambient temperature – and the user can define the measurement duration himself. With the help of this measurement, he can be informed of the temperature-compensated differential pressure and the temperature at the beginning and end of the measurement.

Overview of the digital manifolds from Testo – the right solution for every application

testo 550

The tool for robust applications

testo 550 is suitable for service, maintenance and commissioning on air conditioning and refrigeration systems and heat pumps:

Display of MIN/MAX/MEAN

High quality sensors measure high and low pressure

Calculation of superheating/ subcooling in real time thanks to up to two external temperature probes

2-way valve block with three connections, three hose holders and sight glass

33 refrigerants are stored in the instrument

Display illumination

Instrument functions:

· Heat pump mode
· Temperature-compensated tightness test
· Vacuum display

testo 550-1 Set
The digital manifold for service and maintenance incl. clamp probe, calibration protocol and batteries
Part no. 0563 5505

testo 550-2 Set
The digital manifold for service and maintenance incl. 2 clamp probes, transport case, calibration protocol and batteries
Part no. 0563 5506

testo 556

The Professional Solution for Service and Maintenance

testo 556 is suitable for service and maintenance on air conditioning and refrigeration systems as well as for heat pumps, with extended professional documentation options

Additionally to testo 550:

· 4-way valve block with sight glass

· 4 temperature connections

· Wireless temperature measurement up to 20 m distance (without obstruction)

· 30 refrigerants are stored in the instrument, more refrigerants by free download from the Testo website

· 60,000 measurement values can be stored, analysis via optional software EasyKool

· Extensive accessories connectable

· Optional: temperature and humidity measurement via wireless probe

testo 556-1
The refrigeration system analyzer for service and maintenance incl. calibration protocol and batteries
Part no. 0560 5563

testo 556-2
The refrigeration system analyzer for service and maintenance, incl. calibration protocol and batteries, **NH_3 compatible stainless steel design**
Part no. 0560 5564

testo 560

The professional solution for commissioning, service and maintenance

testo 560 with vacuum cell is suitable for system evacuations. It can also be used for commissioning work.

Additionally to testo 550 and testo 556:

· Vacuum sensor/evacuation

· The sensor measures the absolute pressure and displays the corresponding evaporation temperature of water

· The vacuum cell is protected from too high pessures by a special valve

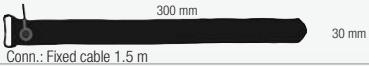
· Optional: temperature and humidity measurement via wireless probes

testo 560-1
The refrigeration system analyzer for service, maintenance and commissioning incl. calibration protocol and batteries
Part no. 0560 5603

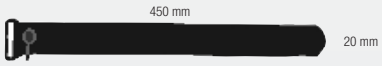
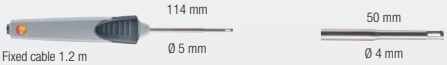
testo 560-2
The refrigeration system analyzer for service and maintenance, incl. calibration protocol and batteries, **NH_3 compatible stainless steel design**
Part no. 0560 5604

Accessories for the manifolds testo 550, 556, 560

Probes and accessories for testo 550

Probes	Illustration	Meas. range	Accuracy	Part no.
Clamp probe for pipes from Ø 6 mm to Ø 35 mm, NTC		-40 to +125 °C	±1 °C (-20 to +85 °C)	0613 5505
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75°C, NTC	 300 mm, 30 mm, Conn.: Fixed cable 1.5 m	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	0613 4611
Waterproof NTC surface probe for flat surfaces	 115 mm, Ø 5 mm, 50 mm, Ø 6 mm, Conn.: Fixed cable 1.2 m	-50 to +150 °C Long-term meas. range +125 °C, short-term +150 °C (2 minutes)	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	0613 1912
Efficient, robust NTC air probe	 115 mm, Ø 5 mm, 50 mm, Ø 4 mm, Conn.: Fixed cable 1.2 m	-50 to +125 °C	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining range)	0613 1712
Transport case, provides space for the testo 550, probes and hoses	 Illustration may differ from original			0516 5505

Probes and accessories for testo 556 and testo 560

Probes	Illustration	Meas. range	Accuracy	t_{99}	Part no.
Pipe wrap probe with Velcro for pipes from Ø 6 mm to Ø 120 mm, Pt 100, 2.9 m cable length	 450 mm, 20 mm	-100 to +400 °C	Class B	90 s	0609 5602
Efficient, robust air probe, Pt100	 114 mm, Ø 5 mm, 50 mm, Ø 4 mm, Fixed cable 1.2 m	-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range)	70 s	0609 1773
Pipe wrap probe for pipe diameter 5 to 65 mm	 Fixed cable	-50 to +120 °C	Class B	5 s	0609 5605

Radio module for upgrading measuring instrument with radio option (Country versions)	Radio freq.	Part no.
Radio module for measuring instrument, 869.85 MHz, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0188
Radio module for measuring instrument, 915.00 MHz FSK, approval for USA, CA, CL	915.00 MHz FSK	0554 0190

Radio probes incl. humidity probe head	Meas. range	Accuracy	Resolution
Radio handle for attachable probe heads with humidity probe head 	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.5 °C	0.1 %RH 0.1 °C

Country versions	Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0189
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL	915.00 MHz FSK	0554 0191
Humidity probe head, attachable to radio handle		0636 9736

Radio probes: General technical data

Probe type	Radio immersion/penetration probe, NTC	Radio handgrip
Battery type	2 x 3V button cell (CR 2032)	2 AAA micro batteries
Battery life	150 h (meas. rate 0.5 s) 2 months (meas. rate 10 s)	215 h (meas. rate 0.5 s) 6 months (meas. rate 10 s)

Measuring rate	0.5 s or 10 s, adjustable on handle	Radio transmission	Unidirectional
		Oper. temp.	-20 to +50 °C
Radio coverage	Up to 20 m (without obstructions)	Storage temp.	-40 to +70 °C

Cable probes for testo 556 and testo 560	Meas. range	Accuracy	Part no.
Current probe for measuring current consumption of compressors, with switchable measuring range	0 to 20/200 A	0 to 9.9 A 4% 10 to 49.9 A 3% 50 to 200 A 2%	0554 5607 **Conn.:** Fixed cable 2.9 m
Oil pressure probe for checking oil level in the compressor	0 to 25 bar rel	1,5 % of fsv Overload: 50 bar	0638 1742 **Conn.:** Fixed cable 2.9 m
Scales incl. transport case and batteries (0 to 80 kg), incl. data cable, directly connectable to testo 556/560, overload 120 kg, resolution: 0.01 kg			0554 5606

Accessories for testo 556 and testo 560	Part no.
USB connection cable instrument-PC	0449 0047
"EasyKool" software with measurement data management, USB data cable included	0554 5604
Testo fast printer with wireless infrared interface, 1 roll thermal paper and 4 AA batteries	0554 0549
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568

Technical data

	testo 550	testo 556	testo 560
Operating temperature	-10 to +50 °C	-20to +60 °C	
Storage temperature	-20 to +60 °C		
Display	LCD		
Battery life	40h (without illumination)		
Dimensions	200 x 113 x 62 mm	260 x 130 x 70 mm	
Weight	1060 g	1400 g	
Pressure media	CFC, HFC, N, H_2O, CO_2 (sub-critical)	FCKW, FKW, N, H_2O, CO_2, (stainelss steel versions: NH_3)	
Low pressure $_{rel.}$ (LP) High pressure $_{rel.}$ (HP)	40 bar / 40 bar	25 bar / 50 bar	
Overload $_{rel.}$ (LP/HP)	60 bar / 60 bar	50 bar / 100 bar	
Accuracy (at +22 °C)	±0.75 % fs (±1 digit)	±0.5% fs (Class 0.5) (±1 digit)	
Connections	3 x 7/16"-UNF	3 x 7/16" UNF 1 x 5/8" UNF	
Vacuum $_{abs}$	Vacuum display	–	0 to 200 hPa
OVerload vacuum $_{abs}$	–	–	3 bar/Sensor protected from high pressures
Temperature			
Meas. range	-50 to +150 °C	-100 to +200 °C	
Accuracy (at +22 °C)	±0.5 K (±1 digit)	Class B ±(0,3 +0,005 tl)	
Resolution	0.1 °C		
Probe connections	2 x plug-in (NTC)	2 x plug-in and 2 x wireless	
Humidity			
Meas. range	–	0 to 100 %RH	
Probe connections	–	1 x wireless	
Refrigerants in instrument	R12, R22, R123, R134a, R290, R401A, R401B, R402A, R402B, R404A, R406A, R407A, R407C, R408A, R409A, R410A, R414B, R416A, R417A, R420A, R421A, R421B, R422A, R422B, R422D, R424A, R434A, R437A, R502, R503, R507, R718 (only in the permitted measurement range up to 40 bar)	R12, R1270, R134a, R22, R23, R290, R401A, R401B, R401C, R402A, R402B, R403B, R404A, R406a*, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R413A, R414b*, R417A, R422a*, R500, R502, R507, R508**, R717**, R723**, R744, R718 * only in –1 version (brass) (more refrigerants can be downloaded free ** only in –2 version (stainless steel) of charge from the Testo website)	
Documentation			
Printer	–	IR printer	
Data store in instrument	–	60,000 readings	

Saves you a lot of time!

Order sets

Assembled for you:

testo 550-1 Set

Digital manifold testo 550
Clamp probe for temperature measurements on pipes
Calibration protocol and batteries

Part no. 0563 5505

testo 550-2 Set

Digital manifold testo 550
2 clpmp probes for temperature measurements on pipes
Calibration protocol and batteries
Transport case

Part no. 0563 5506

Illustration may differ from original

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