



Committing to the future

The Testo 550 Digital Manifold - the Ideal Tool for Servicing and Commissioning Refrigeration Systems and Heat Pumps



The new Testo 550 Digital Manifold provides high performance at an affordable price. Look at the benefits:

With the new Testo 550 you can simply switch on, measure and then view the results.

The large LCD display enables you to view precise measurements of critical pressures and temperatures simultaneously. You can also switch the display at the push of a button to show differential temperature between the high and low pressure sides. Additionally you can display calculations for superheat and subcooling. A glance at the instrument display is enough, and you see the results obtained.

Two temperature inputs guarantee you simultaneous calculation and display of superheating and subcooling. At the press of a button, the differential temperatures are also displayed. By simply pressing a button, you can toggle between the measurement values.

The Testo 550 is an ideal tool for commissioning systems:

1. Evacuation of the system is confirmed for you as the instrument displays vacuum values.
2. Check for leaks by monitoring pressures and ambient temperatures during a timed tightness test.

This allows you to adjust your system reliably.



The Testo 550 is uncomplicated, versatile and easy to use

The instrument's operation is intuitive, uncomplicated and easy to use. The large back lit display enables a good clear view even in the dark. Two practical direct buttons offer you

a further advantage – one for the display of MIN/MAX/MEAN, and the other for instant access to 31 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 with built-in impact protection

The new Testo 550 has a robust 2-way valve block with 3 connections. The instrument is durable and robust, protected by a purpose designed housing. During measurement, the suspension hook provides secure attachment of the manifold.

Just made for tough applications!



The new Testo 550 Digital Manifold helps you in your daily work on refrigeration systems and heat pumps...

In service and maintenance and when commissioning systems!



Measure high and low pressures quickly and precisely

High and low pressure measurements from the condenser and evaporator, are displayed simultaneously.



Evacuation

The vacuum display is invaluable when evacuating the system, indicating the vacuum reached.



Heat pump mode

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



Superheating and subcooling

The Testo 550 simultaneously calculates superheating and subcooling.

For example, using the clamp probe for temperature measurements on pipes (a choice of probes are available). It is simply clamped on to the pipe, and quickly records the surface temperature.

You save precious time, because you conveniently measure both temperatures simultaneously!



Tightness tests on systems can be carried out with this new manifold

By measuring the system pressure and the ambient temperature over a defined period, you can make a judgement on the tightness of a system.

This allows you to carry out additional commissioning work reliably with the Testo 550.

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

Testo 550

The tool for robust applications

The 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
- 31 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 including clamp probe, calibration protocol and batteries

Part no. 0563 5505

Testo 550-2 Set

The digital manifold for service and maintenance including 2 clamp probes, transport case, calibration protocol and batteries

Part no. 0563 5506



Testo 556

The Professional Solution for Service and Maintenance

The 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 analyser for service and maintenance including calibration protocol and batteries

Part no. 0560 5563

Testo 556-2

The refrigeration system analyser for service and maintenance, including calibration protocol and batteries, NH₃ compatible stainless steel design

Part no. 0560 5564



Testo 560

The professional solution for commissioning, service and maintenance

The 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:

- Precise 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 pressures by a special valve
- Optional: temperature and humidity measurement via wireless probes

Testo 560-1

The refrigeration system analyser for service, maintenance and commissioning including calibration protocol and batteries

Part no. 0560 5603

Testo 560-2

The refrigeration system analyser for service and maintenance including calibration protocol and batteries NH₃ compatible stainless steel design.

Part no. 0560 5604



Accessories for the Testo 550, 556, 560 Manifolds

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 5 mm 50 mm 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 5 mm 50 mm 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 5 mm 50 mm 4 mm Fixed cable 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 including 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)		3x AAA micro batteries		Measuring rate
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)		0.5 s or 10 s, adjustable on handle
					Radio coverage
					Up to 20 m (without obstructions)
					Radio transmission
					Unidirectional
					Oper. temp.
					-20 to +50 °C
					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 ₂ O	FCKW, FKW, N, H ₂ O, CO ₂ , (stainless 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			
Measuring range	-50 to +150 °C	-100 to +200 °C	
Accuracy (at +22 °C)	±0.5 K (±1 digit)	Class B ±(0,3 +0,005 t)	
Resolution	0.1 °C		
Probe connections	2 x plug-in (NTC)	2 x plug-in and 2 x wireless	
Humidity			
Measuring 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	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 <small>* only in -1 version (brass) (more refrigerants can be downloaded free of charge from the Testo website) ** only in -2 version (stainless steel)</small>	
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

Testo 550 Digital Manifold
 Clamp probe for temperature measurements on pipes
 Calibration protocol and batteries

Part no. 0563 5505



Testo 550-2 Set

Testo 550 Digital Manifold
 2 clamp 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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