

## Digital manifold

**testo 558s – the digital manifold with 4-way valve block and intuitive touchscreen**

Dynamic app feel with touchscreen and graphical measurements showing data trends over 30 minutes

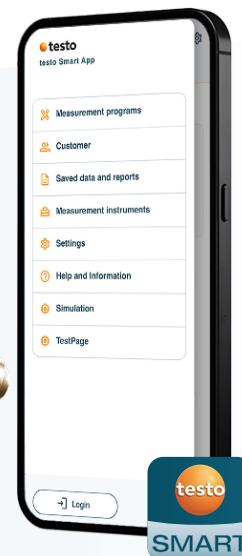
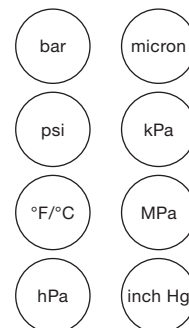
Full flexibility thanks to unique operability via touchscreen, classic operation via keypad and testo Smart App Integration

Superior pressure measuring accuracy of +/- 0.25% full scale ensures accurate results

Everything in one instrument: All applications in one manifold thanks to wireless connection to the testo Smart Probes, Vacuum pump, Clamp meter, and Refrigerant scale with Intelligent Valve

A2L and A3 compatible for maximum safety even with flammable refrigerants

Always ready to go dual power system consisting of batteries and rechargeable battery (USB-C)



testo Smart App  
for free download



Providing a dynamic view of trending data in the palm of your hand – that's where digital manifold testo 558s excels. Interpreting data is even more important to ensuring an efficient refrigeration system with today's standards. Touchscreen operation makes configuration, control and documentation even easier. Alternatively, the instrument can be operated entirely via the testo Smart App or via buttons for working with gloves. To make everyday work even easier, the measurement results can be shown on a large color display in clear graphs as 30-minute data trends to make critical diagnostic decision even faster.

The high measuring pressure accuracy of 0.25 % full scale enables quick and reliable measurements supports getting the job done efficiently and limiting call backs. Thanks to the large number of stored measurement menus and connectivity across the entire Testo refrigeration portfolio, any application can be controlled via the manifold.

For maximum safety, the manifold is compatible with flammable class A2L and A3 refrigerants. With over 90+ refrigerants stored in the manifold and regular Over-The-Air updates, the manifold is always up to date and ready to accomplish any task.

## Technical data / accessories / order data

General technical data	
Operating temperature	-4 to 122 °F (-20 to +50 °C)
Storage temperature	-4 to 140 °F (-20 to +60 °C)
Battery type	Built-in rechargeable battery (USB-C): LI battery 18650 Replaceable battery: 3 AA alkaline batteries
Battery life with backlighting and Bluetooth®	≤ 70 hours
Auto power off	after 10 minutes when not connected via Bluetooth®
Dimensions	9.0 X 4.4 X 2.8 in (229 x 112.5 x 71 mm)
Weight	2.7 lbs (1.3 kg)
Protection class	IP54
Display	Capacitive touchscreen
Bluetooth® technology/range	Bluetooth® 5.0/ 492 ft (150 m)
Data logging	Available as an optional upgrade via in-app purchase (72h data logging)

Sensor types		
	Pressure	Temperature
Measuring range	-14.7 to 870 psi (-1 to 60 bar)	-58 to 302 °F (-50 to +150 °C)
Accuracy (at 72 °F)	±0.25 % fs	±0.9 °C (±0.5 °C)
Resolution	0.1 bar (0.01 bar)	0.1 °F/C
Probe connections	3 x 7/16" – UNF + 1 x 5/8" – UNF	2 x plug-in (NTC)
Overload	940 psi (65 bar)	–

### Order data testo 558s

	testo 558s Smart Digital Manifold	testo 558s Smart Digital Manifold Kit	testo 558s Smart Digital Manifold Kit with hoses
			
Kit components			
testo 558s Digital manifold	✓	✓	✓
2x testo 115i wireless clamp temperature probes		✓	✓
testo 552i vacuum probe		✓	✓
Hose set (4 hoses)			✓
USB-C cable	✓	✓	✓
3 AA alkaline batteries	✓	✓	✓
Calibration protocol for testo 558s	✓	✓	✓
Instrument case		✓	✓
<b>Order no.</b>	<b>0564 5581 01</b>	<b>0564 5582 01</b>	<b>0564 5583 01</b>

# testo Smart Probes / clamp meter testo 770-3

## testo 115i

testo 115i, clamp thermometer operated with smartphone, for measurement on pipelines with diameters of 0.24 to max. 1.38 in., including batteries and calibration protocol

Order no. 0560 2115 02



## testo 552i

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

Order no. 0564 2552 01



## testo 605i

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

Order no. 0560 2605 03



### Sensor type NTC

Measuring range	-40 to 302 °F
Accuracy ±1 digit	±2.3 °F (-4° to 185 °F)
Resolution	0.1 °F/C

### General technical data

Compatibility	requires iOS 11.0 or newer, Android 6.0 or newer, 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 h
Dimensions	7 X 4 X 1 in
Bluetooth® range	up to 328 ft

### Sensor type pressure

Measuring range	0 to 20000 microns/ 0 to 26.66 mbar
Accuracy ±1 digit	±10 microns + 10% of m.v. (100 to 1000 microns)
Resolution	1 micron (0 to 1000 microns) 10 micron (1000 to 2000 microns) 100 micron (2000 to 5000 microns)
Connection	7/16" – UNF
Overload	87 psi / 6.0 bar relative 72 psi / 5.0 bar

### General technical data

Connection	Bluetooth 4.2
Storage temp.	-4 °F to 122 °F
Operating temp.	14 °F to 122 °F
Battery type	3 AAA batteries
Battery life	39 h
Auto power off	After 10 minutes when not connected via Bluetooth
Protection class	IP54
Dimensions	6 X 1 X 1 in
Weight	5 oz
Bluetooth® range	492 ft

### Sensor type humidity – capacitive

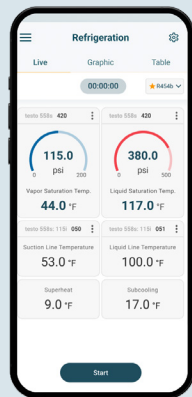
Measuring range	0 to 100 %RH
Accuracy (at 77 °F) ±1 digit	±3.0 %RH (10 to 35 %RH) ±2.0 %RH (35 to 65 %RH) ±3.0 %RH (65 to 90 %RH) ±5 %RH (<10 %RH or >90 %RH)
Resolution	0.1 %RH

### Sensor type NTC

Measuring range	-4 to 140 °F
Accuracy ±1 digit	±1.4 °F (-4 to 32 °F) ±0.9 °F (32 to 140 °F)
Resolution	0.1 °F/C

### General technical data

Compatibility	requires iOS 11.0 or newer, Android 6.0 or newer, requires mobile terminal device with Bluetooth® 4.0
Storage temp.	-4 to 140 °F
Operating temp.	-4 to 122 °F
Battery type	3 AAA batteries
Battery life	150 h
Dimensions	10 x 1 x 1 in 3.9 in probe shaft
Bluetooth® range	up to 492 ft



### The testo Smart App

- For all applications of the testo 558s – from measurement to documentation
- Remote operation of the measuring instrument or use as second screen
- Quick evaluation with all results at a glance, tabular view and graphical progress display
- Guided menus for all measuring tasks
- Create digital measurement reports including photos as PDF/CSV files on site and email them straight away
- Compatible with all Bluetooth®-enabled Testo measuring instruments for air conditioning/refrigeration systems and heat pumps

## testo 770-3

testo 770-3 TRMS clamp meter with Bluetooth®

Order no. 0590 7703 04



### Measuring ranges






Voltage	1 mV to 1000 V AC 0.1 mV to 1000 V DC
Power	0.01 to 600 A AC/DC
µA	0.1 to 600 µA AC/DC
Resistance	0.1 Ω to 60 MΩ
Frequency	0.01 Hz ... 9.999 kHz
Capacity	0.001 nF to 60 mF
Temperature	-4 to 932 °F

### General technical data

Basic accuracy	0.1 %
Display (counts)	6000

Measurement category	CAT IV 600 V CAT III 1000 V
Operating temperature	14 to 122 °F
Dimensions	9.6 X 3.8 X 1.7 in
Weight	13.3 oz.
Approvals	CSA/ETL, CE
Standards	EN 61326-1, EN 61140
Other	True RMS, continuity test, power measurement, diode test, Bluetooth®, testo Smart App

# Probe

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Order no.
<b>Air probe</b>				
Precise, robust NTC air probe	 4.528 in. Ø 0.197 in.	1.969 in. Ø 0.16 in.	-58° to 257 °F ±0.4 °F (-13° to +176 °F) ±0.7 °F (remaining meas. range)	0613 1712
<b>Surface probe</b>				
Clamp probe for temperature in kit for measurements on pipes from 0.24 to 1.38 in. diameter, NTC, fixed cable 5 ft.		-40° to 257 °F	±2 °F (-4° to +185 °F)	0613 5507
Clamp probe for temperature measurements on pipes from 0.24 to 1.38 in diameter, NTC, fixed cable 16 ft		-40° to 257 °F	±2 °F (-4° to +185 °F)	0613 5506
Pipe wrap probe (NTC) for pipe diameters of 0.19 to 2.56 in, fixed cable 9 ft		-58° to 248 °F	±0.4 °F (-13° to 176 °F)	0613 5605
Watertight NTC surface probe for flat surfaces, fixed cable 4 ft	 4.528 in. Ø 0.197 in.	1.969 in. Ø 0.236 in.	-58° to 302 °F Long-term measuring range 257 °F, briefly 302 °F (2 minutes) ±0.5% of m.v. (212° to 302 °F) ±0.4 °F (-13° to 166.8 °F) ±0.7 °F (remaining meas. range)	0613 1912

## Accessories



### Charging hose set

Minimum refrigerant loss, maximum flexibility – for effortless and precise measurements.

1/4" SAE: Order no. 0554 2113

5/16" SAE: Order no. 0554 2114



### Charging hose set with valve

Minimal refrigerant loss and precise flow control thanks to integrated shut-off valve.

1/4" SAE: Order no. 0554 2115

5/16" SAE: Order no. 0554 2116



### Vacuum hose

Robust, tight and reliable: the new vacuum hose with permeation barrier for minimal refrigerant loss.

Order no. 0554 2117



### Valve core remover

Quick valve core replacement without loss of refrigerant – for efficient and safe maintenance.

Order no. 0554 3111



### Shut-off valve

Precision to perfection – for secure attachment of the charging hoses without loss of refrigerant.

Order no. 0554 3112



### Charging hose adapter

Ensures smooth connections between different SAE connections.

1/4" to 5/16" SAE:  
Order no. 0554 3113

5/16" to 1/4" SAE:  
Order no. 0554 3114



### Magnetic strap

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

Order no. 0564 1001



### Spare valve set

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.

Order no. 0554 5570



### Pipe wrap probes

Pipe wrap probe with Velcro tape for pipe diameters up to max. 2.95 in, Tmax. 167°F, NTC, fixed cable 5 ft.

Order no. 0613 4611