



Time saving, highly flexible data handling on-site

The NEW testo 175 / 177 data logger series

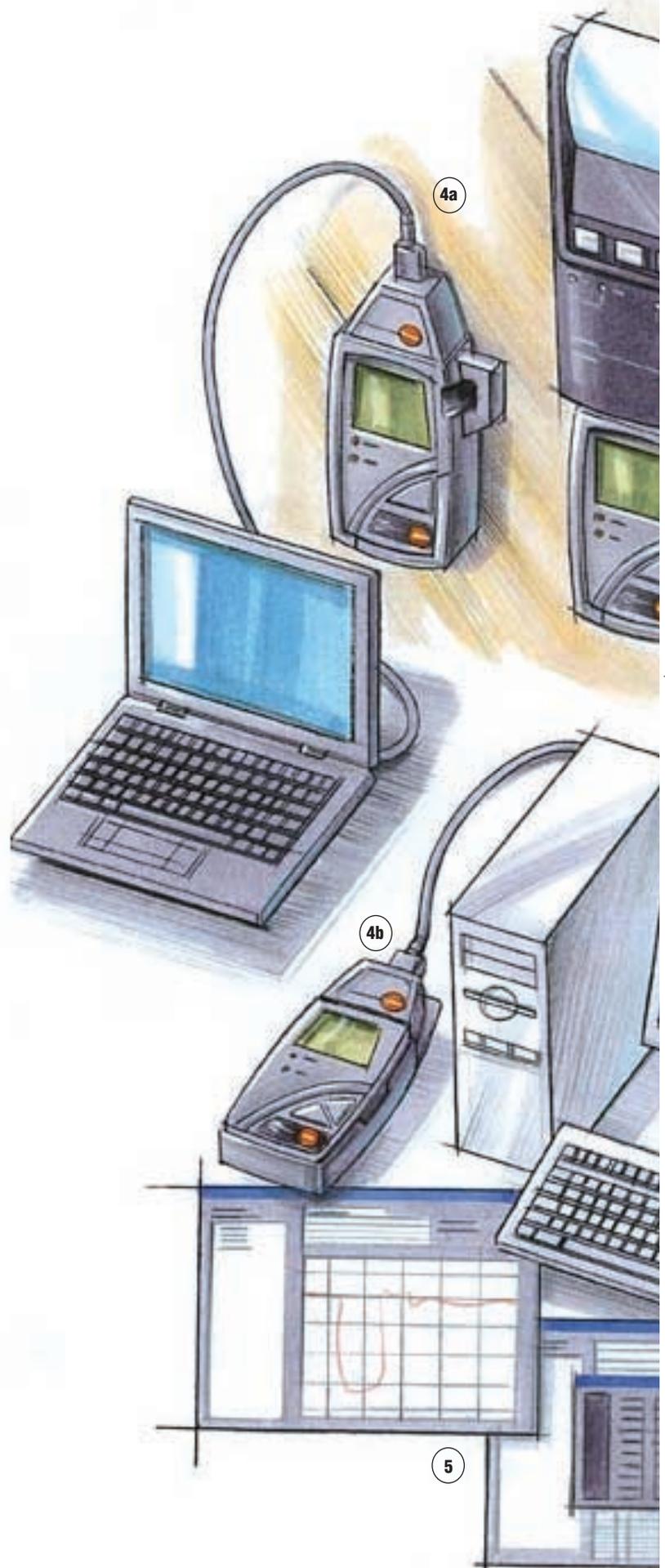
The **testo 175** series consists of six compact data loggers, which measure temperature, humidity, voltage and current. The **testo 177** series consists of five instruments suitable for wide ranging and especially long-term applications. All the loggers have a display and immediately provide a quick overview of the current reading, the last value saved, maximum and minimum value and the number of times a limit has been exceeded. The **testo 580** data collector, and the flexible **testo 575** fast printer, each suitable for all the data loggers, opens up a whole new scope of possibilities for dealing with data collection.

testo 580 - the on-site data collector

The **testo 580** is a unique data collector which allows stored data to be transferred from the logger on-site without interrupting operation. It can also stop and reprogram several loggers on-site. The complete memory of the testo 177 data logger or 175 data logger is transferred in seconds, (approx. 400 values per second) via infrared interface. All values collected by the data collector can later be downloaded to a PC and analyzed using the Windows compatible Testo ComSoft 3 Software.

testo 575 - the fast on-site printer

The **testo 575** prints up to six lines per second in table or graph format. The stored data is transferred on-site via infrared without interrupting operation and enables fast and convenient on-site documentation without using a PC. Due to Testo's development of this revolutionary concept it is possible to program the logger without a PC or notebook.



- 1 **testo 175 or testo 177**
With wall holder and lock
- 2 **testo 580**
 - a. The logger data can now be transferred on-site
 - b. The collected data can be downloaded to PC
- 3 **testo 575**
The practical printer enables you to print the logger data on location
- 4 **Interface**
 - a. If required a notebook can still be used on-site
 - b. Used to download data to a PC
- 5 **Windows® compatible software**
With e-mail function

Worry Free

Safe memory storage

With the new testo 175 / 177 data logger series your secure in the knowledge that vital data will never be lost or changed when the battery is either spent or replaced. Using Testo's Software, battery life can be calculated over the course of several years and consequently changed by the user in the field when necessary without worrying about interrupting data logging operation and documentation. This is a real advantage for safe measurements in any application.

Always reliable

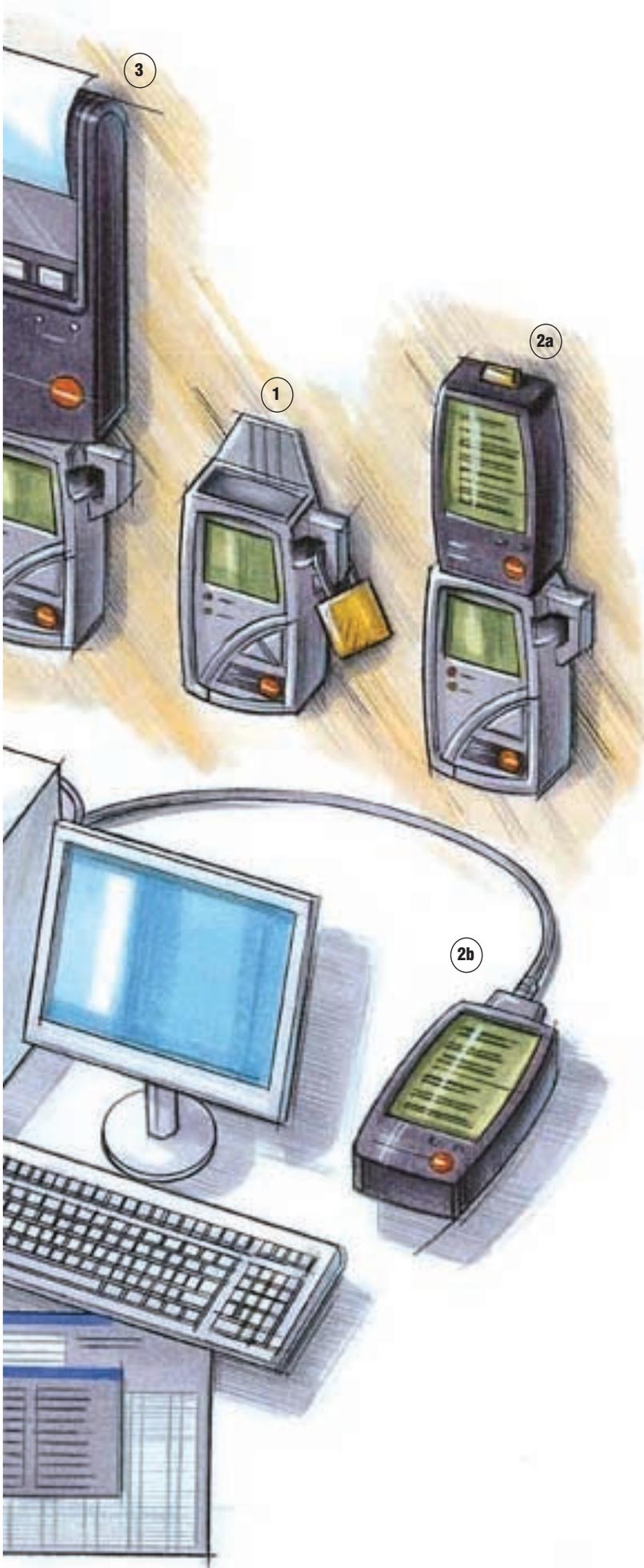
All of the data loggers have a real-time clock (RTC). The rugged ABS casing with non-skid/non-rigid surface guarantees protection from moisture and mechanical strain. Some of the loggers can even be submersed for short periods of time. The loggers are also tamperproof when you use the wall bracket and lock options.

NIST calibration certificates

In many industries, such as pharmaceuticals, using calibrated and/or certified instruments is mandatory. Testo can calibrate all of its loggers to the highest possible standards. Testo is recognized worldwide for its combination of DKD calibration laboratories, accredited to ISO 17025, for temperature, relative humidity, velocity and pressure and ISO/NIST calibrations. These are a lower cost alternative to DKD calibrations, and are accepted by many audits in accordance with ISO 9001, HACCP, GMP, FDA, VDA 6.1, ISO TS 16949 etc. See summary of certificates on page 14.

Windows® compatible software

Testo software, ComSoft 3 Basic and ComSoft 3 Professional, has all the functions needed to operate your logger quickly and accurately. The loggers can be started manually or pre-programmed to start using date and time. The logger can be stopped in several ways: when a certain number of measurements have been reached, according to a pre-programmed date or time, when the memory is full, manually via PC, or using either the testo 575 printer or the testo 580 data collector. The wraparound memory program enables "continuous measurements" meaning the oldest values are written over.



testo 175 Series

Compact data loggers for temperature, humidity, voltage and current

- Memory for up to 16,000 readings
- Maximum 2 channels
- Measuring rate: 10 sec to 24 hr
- Battery life: > 2.5 years *
- LCD display versions, 1 line
- Dimensions: 3.25 x 2 x 1.2 in
- All loggers can be calibrated (ISO and NIST)

1 channel temperature logger with internal sensor testo 175-T1



Meas. range -31 to +160 °F
Memory 7,800 readings

See page 6 for details

2 channel temperature logger with internal sensor/external probe socket testo 175-T2



Meas. range -31 to +160 °F (internal)
-40 to +250 °F (external)
Memory 16,000 readings

See page 6 for details

2 channel temperature logger for external thermocouples testo 175-T3



Meas. range -58 to +1832 °F (Type K)
-58 to +750 °F (Type T)
Memory 16,000 readings

See page 7 for details

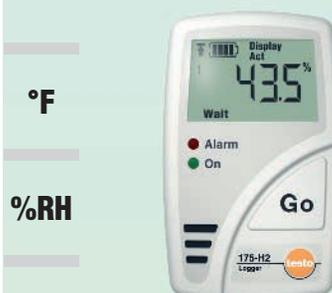
2 channel humidity/temperature data logger with internal sensors testo 175-H1



Meas. range 0 to 100 %RH
14 to +120 °F
Memory 3,700 readings

See page 8 for details

2 channel humidity/temperature logger with internal sensors testo 175-H2



Meas. range 0 to 100 %RH
-4 to +160 °F
Memory 16,000 readings

See page 8 for details

1 channel current/voltage logger testo 175-S1



Meas. range 0 to 1 V / 0 to 10 V
0 to 20 mA / 4 to 20 mA
Memory 16,000 readings
Meas. rate 1 s to 24 hr

See page 7 for details

* at a measuring rate of 15 min (+14 to +122 °F)

testo 177 series

Professional data loggers for long-term and multi-channel temperature and humidity measurement

- Memory for up to 48,000 readings
- Maximum 4 channels
- Measuring rate: 2 sec to 24 hr
- Battery life: > 5 years *
- LCD display version, 2 line
- Dimensions: 4 x 2.5 x 1.3 in (casing without probe)
- All loggers can be calibrated (ISO and NIST)

1 channel temperature logger with internal sensor for long-term monitoring
testo 177-T1



Meas. range -40 to +160 °F
Memory 48,000 readings

See page 9 for details

1 channel temperature logger with internal sensor for long-term monitoring
testo 177-T2



Meas. range -40 to +160 °F
Memory 48,000 readings

See page 9 for details

3 channel temperature logger with event logging
testo 177-T3



Meas. range -40 to +160 °F (internal)
-40 to +250 °F (external)
Memory 48,000 readings

See page 10 for details

4 channel temperature logger for external thermocouples
testo 177-T4



Meas. range -319 to +1832 °F (Type K)
-328 to +750 °F (Type T)
Memory 48,000 readings

See page 10 for details

4 channel humidity/temperature logger with int. sensors and additional ext. probe socket
testo 177-H1



Meas. range, inter.: 0 to 100 %RH;
-4 to +160 °F
-40 to +160 °F td;
exter.: -40 to +250 °F
Memory: 48,000 readings

See page 11

All on-site, convenient and easy to use
testo 575 Fast Printer
testo 580 Data Collector



Fast Printer
testo 575

Printer type: Thermal line printer with graph function and data transfer via infrared

Data Collector
testo 580

Memory capacity: 1 MB (approx. 500,000 values)

See page 12

* at a measuring rate of 15 min (+14 to +122 °F)



testo 175-T1

1 channel temperature logger with internal sensor

°F



Technical data

Parameter	Temperature (°C/°F)
Sensor	NTC (internal)
No. of channels	1 channel (internal)
Measuring range	-31 °F to +160 °F
Resolution	0.1 °F of -4 to +160 °F 0.3 °F in remaining range
Accuracy/System ±1 digit	±0.9 °F (-4 to +160 °F) ±1.8 °F (-31 to -4 °F)
Memory	7,800 readings
Application temp.	-31 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1AA)
Weight	3 oz
Protection class	IP 68

testo 175-T1

1 channel temperature logger with internal sensor, wall holder and calibration certificate

Part no. 0563 1754

Easy, affordable temperature monitoring

- During transport
- In refrigerated rooms
- In display cabinets
- In containers
- For monitoring rooms



Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder and PC conn. cable

Part no. 0554 1759

testo 575 fast printer

Part no. 0554 1775

testo 580 data collector

incl. readout holder for logger

Part no. 0554 1778

Accessories and Calibration Certs./P. 14

testo 175-T2

2 channel temperature logger with internal sensor/external probe socket

°F



Technical data

Parameter	Temperature (°C/°F)
Sensor	NTC (internal + external)
No. of channels	2 channels (1int./1ext.)
Measuring range	-31 °F to +170 °F (intern.) -40 °F to +250 °F (extern.)
Resolution	0.9 °F of -40 to +160 °F 0.3 °F rem. range
Accuracy/System Internal: ±1 digit	±0.5 °F (-4 to +160 °F) ±1.8 °F (-31 to -4 °F)
Accuracy/Instr. External: ±1 digit	±0.5 °F (-13 to +160 °F) ±0.5 °F rem. range
Memory	16,000 readings
Application temp.	-31 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1AA)
Weight	3 oz.
Protection class	IP 68

testo 175-T2

2 channel temperature logger with internal sensor and external probe socket, wall holder and calibration protocol

Part no. 0563 1755

Monitor product and air temperature simultaneously

- During transport
- In refrigerated rooms
- In containers
- During production



Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder and PC conn. cable

Part no. 0554 1759

testo 575 fast printer

Part no. 0554 1775

testo 580 data collector

incl. readout holder for logger

Part no. 0554 1778

Accessories and Calibration Certs./P. 14

Probes on page 15

testo 175-T3

2 channel temperature logger for external thermocouples



Technical data	
Parameter	Temperature (°C/°F)
Sensor	T/C-Type K or T (external)
No. of channels	2 channels (external)
Measuring range	-60 °F to +1832 °F (Type K) -60 °F to +750 °F (Type T)
Resolution	0.1 °F
Accuracy/Instr. (without probes)	±0.9 °F (-60 to +160 °F) ±0.7% of reading (160 to +1832 °F)
Memory	16,000 readings
Application temp.	32 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1/2 AA)
Weight	3 oz
Protection class	IP 54



°F

Ordering data/Accessories	
ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable Part no. 0554 1759	
testo 575 fast printer Part no. 0554 1775	
testo 580 data collector incl. readout holder for logger Part no. 0554 1778	
Accessories and Calibration Certs./P. 14	



- Fast 2 channel temperature monitoring in**
- Heating appliances
 - Domestic housing
 - Metal processing
 - Production
 - Technical laboratories

testo 175-T3

2 channel temperature logger with external thermocouples, wall holder and calibration certificate

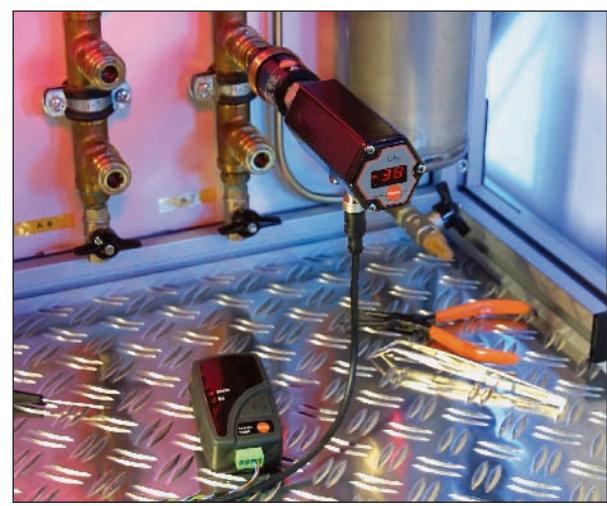
Part no. 0563 1756

Probes on page 15

testo 175-S1

1 channel current/voltage logger

Technical data	
Parameter	Current/voltage
No. of channels	1 channel (external)
Measuring range	0 to 1 V / 0 to 10 V 0 to 20 mA / 4 to 20 mA
Resolution	1 mV (0 to 1 V) 10 mV (1 to 10 V) 0.01 mA (0 to 20 mA)
Accuracy/System ±1 digit	± 2 mV(0 to 1 V) ± 20 mV(1 to 10 V) ± 0.05 mA(0 to 20 mA)
Memory	16,000 readings
Probe	Built-in screwed contact socket
Application temp.	13 °F to +120 °F
Storage temp.	-40 °F to +160 °F
Battery type	Lithium (1/2 AA)
Weight	3 oz



mA/V

Ordering data/Accessories	
ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable Part no. 0554 1759	
testo 575 fast printer Part no. 0554 1775	
testo 580 data collector incl. readout holder for logger Part no. 0554 1778	
Accessories and Calibration Certs./ P. 14	



- Easy current/voltage monitoring in**
- Industrial processes
 - Laboratories
 - Control systems
 - Development
 - Production
 - Transmitter outputs

testo 175-S1

1 channel current/voltage logger with external terminal screws, wall holder and calibration certificate

Part no. 0563 1759



testo 175-H1

2 channel humidity/temperature logger with internal sensors

°F

%RH



testo 175-H1

2 channel humidity/temperature logger with internal sensors, wall holder and calibration certificate

Part no. 0563 1757

Affordable monitoring of humidity/temperature values in

- Warehouses
- Domestic housing
- Museums
- Industrial processes
- Mechanical engineering



Technical data

Parameter	Humidity/Temperature
Sensor	Humidity sensor/ NTC (internal)
No. of channels	2 channels (internal %RH; °F)
Measuring range	0 to 100 %RH 14 °F to +120 °F
Resolution	0.1 %RH / 0.1 °F
Accuracy/System ±1 digit	± 3 %RH ± 0.9 °F
Memory	3,700 readings
Application temp.	14 °F to +120 °F
Storage temp.	-40 °F to +160 °F
Battery type	Lithium (1/2 AA)
Weight	3 oz

Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable
Part no. 0554 1759

testo 575 fast printer

Part no. 0554 1775

testo 580 data collector
incl. readout holder for logger

Part no. 0554 1778

Accessories and Calibration Certs./P. 14

testo 175-H2

2 channel humidity/temperature logger with internal sensors and display

°F

%RH



testo 175-H2

2 channel humidity/temperature logger with internal sensors, digital display, wall holder and calibration certificate

Part no. 0563 1758

Efficient monitoring of humidity/temperature values in

- Industrial processes
- Domestic housing
- Offices
- Warehouses
- Museums



Technical data

Parameter	Humidity/ Temperature
Sensor	Humidity sensor / NTC (internal)
No. of channels	2 channels (internal %RH; °F)
Measuring range	0 to 100 %RH -4 °F to +160 °F
Resolution	0.1 %RH / 0.1 °F
Accuracy/System ±1 digit	±3 %RH ±0.9 °F
Memory	16,000 readings
Application temp.	-4 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1/2 AA)
Weight	3 oz

Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable
Part no. 0554 1759

testo 575 fast printer

Part no. 0554 1775

testo 580 data collector
incl. readout holder for logger

Part no. 0554 1778

Accessories and Calibration Certs./P. 14

testo 177-T1

1 channel temperature logger w/ int. sensor for long-term monitoring



Technical data	
Parameter	Temperature (°C/°F)
Sensor	NTC (internal)
No. of channels	1 channel (internal)
Measuring range	-40 °F to +160 °F
Resolution	0.1 °F
Accuracy/System ±1 digit	±0.7 °F; -13 to +160 °F ±1.4 °F; -40 to -13 °F
Memory	48,000 readings
Application temp.	-40 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery life	Lithium (1AA)
Weight	4 oz
Protection class	IP 68



Ordering data/Accessories	
ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable Part no. 0554 1774	
testo 575 fast printer Part no. 0554 1775	
testo 580 data collector set incl. readout holder for logger Part no. 0554 1778	
Accessories and Calibration Certs./P. 14	



Long-term temperature monitoring in refrigeration and deep-freeze

- Freezer rooms
- Warehouses
- Refrigerated rooms
- Transport
- Containers



testo 177-T1	
1 channel temperature logger with internal sensor, wall holder and calibration certificate	
Part no.	0563 1771

testo 177-T2

1 channel temperature logger with internal sensor and display for long term monitoring

Technical data	
Parameter	Temperature (°C/°F)
Sensor	NTC (internal)
No. of channels	1 channel (internal)
Measuring range	-40 °F to +160 °F
Resolution	0.1 °F
Accuracy/System ±1 digit	±0.7 °F; -13 to +160 °F ±1.4 °F; -40 to -13 °F
Memory	48,000 readings
Application temp.	-40 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1AA)
Weight	4.3 oz.
Protection class	IP 68



Ordering data/Accessories	
ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable Part no. 0554 1774	
testo 575 fast printer Part no. 0554 1775	
testo 580 data collector incl. readout holder for logger Part no. 0554 1778	
Accessories and Calibration Certs./P. 14	



Long-term temperature monitoring with temperature display for

- Refrigerated rooms
- Warehouses
- Domestic housing
- Containers
- Transport



testo 177-T2	
1 channel temperature logger with internal sensor, digital display, wall holder and calibration certificate	
Part no.	0563 1772

°F

°F



testo 177-T3

3 channel temperature logger with event logging

°F



testo 177-T3

3 channel temperature logger with internal sensor, 2 probe sockets, door contact, wall holder and calibration certificate

Part no. 0563 1773

Multi-channel temperature logger with display for monitoring transport

- Transport logs
- Refrigerated room logs
- Warehouses
- Containers



Probes on page 15

Technical data

Parameter	Temperature (°C/°F)
Sensor	NTC (int. + 2 external) Event logging i.e. door contact
No. of channels	4 channels (1 int.; 2 ext.) + 1 door contact (external)
Measuring range	-40 °F to +160 °F (internal) -40 °F to +250 °F (extern)
Resolution	0.1 °F
Accuracy/System	±0.7 °F; -13 to +160 °F
Internal: ±1 digit	±1.4 °F; -40 to -13 °F
Accuracy/Instr.	±0.4 °F; -13 to +160 °F
External: ±1 digit	±0.7 °F rem. range
Memory	48,000 readings
Application temp.	-40 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1AA)
Weight	4.5 oz
Protection class	IP 67

Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable
Part no. 0554 1774

testo 575 fast printer

Part no. 0554 1775

testo 580 data collector
incl. readout holder for logger
Part no. 0554 1778

Accessories and Calibration Certs./P. 14

testo 177-T4

4 channel temperature logger for external thermocouples

°F



testo 177-T4

4 channel temperature logger for external thermocouples, wall holder and calibration certificate

Part no. 0563 1774

Fast measurement of high temperatures in

- Hardening bays
- Mechanical engineering
- In production processes
- Heating installation
- Laboratories
- Low temperature measurement up to -148 °F



Probes on page 15

Technical data

Parameters	Temperature (°C/°F)
Sensors	T/C-Type K or T (4 x external)
No. of channels	4 channels (external)
Measuring range	Type K: -319 °F to +1832 °F Type T: -328 °F to +750 °F
Resolution	0.1 °F
Accuracy/Instr. ±1 digit	±0.3 °F; -150 to +160 °F ±1% m.v. (-328 °F to 212 °F) ±0.5% of reading; +160 to +1832 °F
Memory	48,000 readings
Application temp.	32 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1AA)
Weight	4.5 oz
Protection class	IP 43

Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable
Part no. 0554 1774

testo 575 fast printer

Part no. 0554 1775

testo 580 data collector
incl. readout holder for logger
Part no. 0554 1778

Accessories and Calibration Certs./P. 14

testo 177-H1



4 channel humidity/temperature logger with internal sensors and external probe socket

Technical data	
Parameters	Humidity/Temperature/ Dew point
Sensors	Humidity sensor/ NTC (internal) NTC (external)
No. of channels	4 channels (3 x int. %RH; °F, °F td) (1 x external °F)
Measuring range	0...100 %RH -4 to +160 °F (internal) -40 to +160 °F td -40 to +250 °F (external)
Resolution	0.1%RH/0.1 °F/0.1 °F td
Accuracy/System	± 2%RH
Internal: ±1 digit	± 0.9 °F;
Accuracy/Instr.	± 0.4 °F; -13 to +160 °F
External: ±1 digit	± 0.7 °F; rem. range
Memory	48,000 readings
Application temp.	-4 °F to +160 °F
Storage temp.	-40 °F to +185 °F
Battery type	Lithium (1AA)
Weight	4.6 oz
Protection class	IP 54



Ordering data/Accessories

ComSoft 3 - Basic Set, easy-to-use software with diagram and table function, interface for logger incl. desk-top holder, and PC conn. cable	Part no. 0554 1774
testo 575 fast printer	Part no. 0554 1775
testo 580 data collector incl. readout holder for logger	Part no. 0554 1778

Accessories and Calibration Certs./P. 14

Probes on page 15



- °F
- %RH
- dew point

Advantages of the testo 177-H1 data logger

- External humidity sensor resulting in fast response time
- Extensive range of temperature probes
- Measure dew point difference via connectable surface temperature probe
- Easy field calibrations
- Various protective caps available for dirty, wet or corrosive areas

Advantages of the testo humidity sensor

The Testo humidity sensor, has been tried and tested throughout the world. Its use in Testo data loggers ensures:

- Accuracy
- Long-term stability
- Temperature resistance and
- Ruggedness

Is moisture in a building the problem?



Easily detect potential ventilation problems

Moisture on ceilings and walls can be caused by poor construction or more often by poor ventilation. Long-term measurement with a testo data logger will help diagnose the problem. The data logger calculates the difference between the wall surface temperature and the dew point temperature of the ambient air. If the walls are still moist and the dew point temperature is consistently higher than the wall surface temperature it's a sure indication of an insulation and or ventilation problem.

Ideal for air humidity and temperature monitoring

- In domestic buildings (See photo opposite)
- In greenhouses
- In clean rooms
- In warehouses
- During production
- In computer rooms
- In museums

testo 177-H1

4 channel humidity/temperature logger with int. sensors and additional external probe socket, wall holder and calibration **certificate**

Part no. 0563 1775



testo 575 printer and logger control in one

Prints and analyzes data on-site without a PC



Quickly print data on site and even restart loggers without connecting to a PC with this unique multifunction testo 575 printer



Technical data

Printer	Infrared thermal line printer with graph function
Contrast	Can be adjusted
Paper width	2.2 in
Roll diameter	Up to 1.4 in
Paper	Standard paper and two layer-adhesive
Number of characters/line	24
Graph resolution	203 dpi
Operating temp.	23 to +120 °F (for 5 min at -22 °F)
Storage temp.	-22 to +160 °F
Power	6x round cell 1AA
Battery life	Up to 40,000 print lines
Battery change	By user
Casing	ABS (black), with "Soft-Protect" inserts

testo 575

infrared thermal line printer with graph function, incl. 1 roll of thermal paper and batteries

Part no. 0554 1775

Printer and Logger Control In One

Print functions

- Fast-action print mechanism prints up to 6 lines per second (up to 40 readings/s)
- Easy to insert paper
- Prints tables at the touch of a button
- Prints graphs at the touch of a button
- Brief information or complete memory can be printed as needed
- A time mark can be set in the logger at the touch of a button, the printer recognizes what is to be printed

- Works for all Testo measuring instruments with print function
- Language options
- Optional self-adhesive paper available

Control functions

- Stops testo 175/177 loggers
- Restarts logger with saved parameters (reprogramming)
- Both buttons can be blocked by PC software

testo 580 compact data collector

Collects and transports data to PC



The pocket-size testo 580 data collector transfers data on-site from loggers for PC download later



Technical data

Memory capacity	1MB (ap. 500,000 values)
Read out time in logger	Approx. 400 readings/sec
Read out time/PC	Approx. 1.500 readings/s
Logger interface	IR transfer, bidirectional
PC interface	RS 232 (Sub_D socket)
Operating temp.	-22 to +160 °F;
Storage temp.	-40 to +185 °F
On/Off switch	Off: Auto (after 1 min)

Functions:

Display	Memory occupied/Logger
	Memory occupied/testo 580
	Battery life: Logger
	Battery life: testo 580
	Data transfer in progress
	Data transfer ok or defective
	Wraparound/Display
Other:	Data secure even if battery is spent
Power	3x micro AAA cells
Casing	ABS (black)

testo 580

data collector incl. readout holders for testo 175/177 data loggers

Part no. 0554 1778

testo 580 - Data collector

- Downloads the complete memory of a testo 175/177 at the touch of a button
- Displays all status information
- Can transfer up to 25 full testo 175 loggers or 10 full testo 177 loggers
- Downloads the collected data to PC via ComSoft 3 Software.

Control function

- Stops loggers
- Rebooting of logger possible
- Both control functions can be blocked via PC

Testo ComSoft Software and Interface

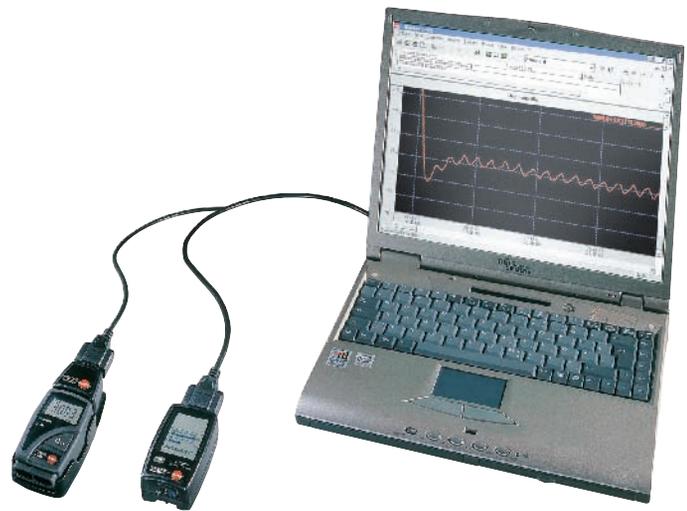


Basic and Professional

Once the data logger is programmed and read out, data can be easily analyzed and saved using a choice of Windows compatible ComSoft 3 software.

ComSoft 3 - Basic Version: Easy operation, convenient analysis

The Basic version has all the functions needed to monitor, analyze, save and print data. The data loggers are programmed and read out using the instrument drivers available. The limit values to be monitored can be defined as required; short titles, text fields and channel names ensure clear location if several loggers are in use. Once read out, the data can be shown in table or graph form and then analyzed. The crosshair function helps you to find specific readings in a large file. The course of the line is scanned with the crosshair and number, date, time and reading are displayed. During programming, e-mail addresses can be input so that data can be easily forwarded through your locally installed e-mail program by simply clicking "Send" while the data is being read out. The saved e-mail address is entered in the address box.



Additional functions:

- Axes can be scaled as required
- Frequently used scales can be saved for future use
- Min/max and mean calculation in tables
- Printout as table or graph on all printers compatible with Windows
- Data export to other applications via clipboard
- Automatic search for instrument driver during initial operation (Autodetect)

Convenient, Easy-to-use Software for Windows 95, 98, NT, ME, XP

- **ComSoft 3 - Basic:**
Reads out, displays, prints and programs all testo 175 and 177 loggers; with e-mail function
- **ComSoft 3 - Professional:**
Saves data in a tree structure for easy and convenient data management.

ComSoft 3 - Professional Version: Convenient data filing included

The Professional version has all the functions of the Basic version plus: digit field, bar display, analogue instrument, xy display, and a convenient data filing function. Data can be saved in separate files so that, for example, several data loggers from different locations can be organized in a tree structure. This is critical for instruments which can manage many measurement protocols, such as, the testo 580 data collector. The driver in this instrument is set up so that the directory structure of the Professional software is supported. The result is clear and comprehensible data handling.

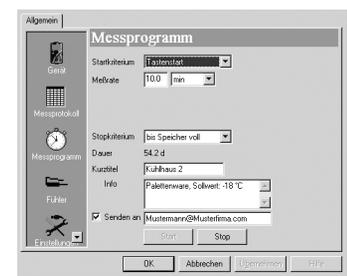
Additional functions:

- Additional display options such as digit field, bar display, analogue instrument and xy plot
- Adaptation of menu and range of functions
- Input of mathematical functions with calculation on a new measurement channel
- Compensation functions 0 (mean) to 7th degree
- Selection of different print heads for printing tables and graphs
- Developer ToolBox with functions to integrate the instrument driver in non-Testo software

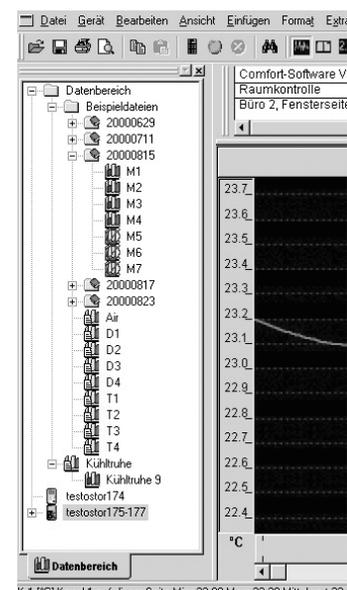
testo 175 and testo 177 data loggers

The testo 175 and testo 177 data loggers are read out and newly programmed at the serial interface of the PC. Due to the fast data transfer speed (500 values/second) even full loggers are read out in no time. The interface is non-contact (infrared) so there are no confusing wire connections. The actual readout unit can be snapped onto attached loggers and then read out on-site.

ComSoft 3 - Basic	
for testo 175	Easy software with diagram and table display, interface incl. desk-top holder and PC conn. cable
Part no.	0554 1759
for testo 177	
Part no.	0554 1774



ComSoft 3 - Professional	
	with data management incl. database, analysis and graph function, data analysis, trend curve (w/o interface)
Part no.	0554 0830



Interface	
	for testo 175 /177 incl. desk-top holders for testo 175/177, PC connection cable (for ComSoft 3 - Professional, please order)
Part no.	0554 1757



testo 175/177

Ordering Information

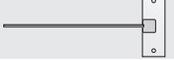
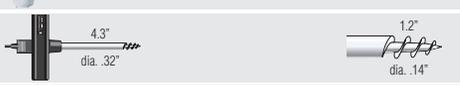
Description	Part no.
testo 175/177 data loggers	
testo 175-T1 logger with display , 1 channel temperature logger with internal sensor, wall holder and calibration certificate	0563 1754
testo 175-T2 logger with display , 2 channel temperature logger with int. sensor and ext. probe socket, wall holder and calibration certificate	0563 1755
testo 175-T3 logger with display , 2 channel temperature logger for external thermocouples, wall holder and calibration certificate	0563 1756
testo 175-S1 logger without display , 1 channel current/voltage logger with ext. terminal screws, wall holder and calibration certificate	0563 1759
testo 175-H1 logger without display , 2 channel humidity/temperature logger with internal sensors, wall holder and calibration certificate	0563 1757
testo 175-H2 logger with display , 2 channel humidity/temperature logger with internal sensors, wall holder and calibration certificate	0563 1758
testo 177-T1 logger without display , 1 channel temperature logger with internal sensor, wall holder and calibration certificate	0563 1771
testo 177-T2 logger with display , 1 channel temperature logger with internal sensor, wall holder and calibration certificate	0563 1772
testo 177-T3 logger with display , 3 channel temperature logger with int. sensor, 2 probe sockets, door contact, wall holder and calibration certificate	0563 1773
testo 177-T4 logger with display , 4 channel temperature logger for external thermocouples, wall holder and calibration certificate	0563 1774
testo 177-H1 logger with display , 4 channel humidity/temperature logger w/ int. sensors and additional ext. probe socket, wall holder and calibration certificate	0563 1775
testo 580 data collector 0554 1778 incl. readout holders for testo 175/177 loggers	
testo 575 fast printer , infrared thermal line printer with graph function, incl. 1 roll of thermal paper and batteries	0554 1775
Spare thermal paper for printer (6 rolls/pkg.)	0554 0569
Spare thermal paper for testo 575 printer (6 rolls/pkg.) Long-term legible data documentation for up to 10 years	0554 0568
Label thermal paper for testo 575 printer (6 rolls/pkg.) for direct application	0554 0561
ComSoft 3 - Basic Set for testo 175 , easy-to-use software with diagram and table display, interface incl. desk-top holder	
0554 1759	
ComSoft 3 - Basic Set for testo 177 , easy-to-use software with diagram and table display, interface incl. desk-top holder	
0554 1774	
ComSoft 3 - For requirements in accordance with CFR 21 Part 11, incl. database, analysis and graphics function, data analysis, trend curve (without interface)	
0554 0821	
ComSoft 3 - Professional with data management incl. database, analysis and graph function, data analysis, trend curve (without interface)	
0554 0830	
Interface for testo 175 /177 incl. desk-top holders for testo 175/177, PC connection cable (required for ComSoft 3 - Professional)	
0554 1757	
Lock for wall holder for testo 175 / 177 data loggers	
0554 1755	
Battery 3.6 V / 0.8 Ah 1/2 AA; for testo 175-T3/175-H1/175-H2/175-S1	
0515 0175	
Battery 3.6 V / 1.9 Ah 1AA; for testo 175-T1/175-T2 and all testo 177 loggers	
0515 0177	
Transport case for up to 5 testo 175 data loggers, testo 575 printer testo 580 data collector and accessories	
0516 1750	
Transport case for up to 5 testo 177 data loggers, testo 575 printer, testo 580 data collector and accessories	
0516 1770	
Accessories	
Metal protection cage for humidity probes, V4A stainless steel, for velocity below 2000 fpm	0554 0755
Cap with mesh wire filter	0554 0757
Teflon sintered filter, for corrosive substances, high moisture level (long-term measurements), high velocities	0554 0756
Stainless steel sintered caps, to be screwed onto humidity probes for measurements at high velocities or in dirty air	0554 0647
Control and humidity adjustment set 11.3 %RH / 75.3 %RH, incl. adapter for humidity probes	0554 0660

Description	Part no.
Calibration Certificates:	
testo 177-T1	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 177-T2	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 177-T3	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 177-T4	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0171
ISO calibration certificate/Temperature Temp. data loggers; cal. point -112 °F	0520 0221
ISO calibration certificate/Temperature Temp. data loggers; cal. points 32 °F; +300 °F; +572 °F	0520 0021
testo 177-H1	
NIST calibration certificate/Humidity Humidity data loggers; cal. points 11.3 %RH and 75.3 %RH at +77 °F; for each channel/instr.	0520 0246
ISO calibration certificate/Humidity Humidity data loggers; cal. points 11.3 %RH and 75.3 %RH at +77 °F; for each channel/instr.	0520 0076
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 175-T1	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 175-T2	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 175-T3	
NIST calibration certificate/Temperature Temp. data loggers; cal. points -4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0261
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 175-H1	
NIST calibration certificate/Humidity Humidity data loggers; cal. points 11.3 %RH and 75.3 %RH at +77 °F; for each channel/instr.	0520 0246
ISO calibration certificate/Humidity Humidity data loggers; cal. points 11.3 %RH and 75.3 %RH at +77 °F; for each channel/instr.	0520 0076
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 175-H2	
NIST calibration certificate/Humidity Humidity data loggers; cal. points 11.3 %RH and 75.3 %RH at +77 °F; for each channel/instr.	0520 0246
ISO calibration certificate/Humidity Humidity data loggers; cal. points 11.3 %RH and 75.3 %RH at +77 °F; for each channel/instr.	0520 0076
ISO calibration certificate/Temperature Temp. data loggers; cal. points -0.4 °F; 32 °F; +140 °F; for each channel/instr.	0520 0151
testo 175-S1	
ISO calibration certificate/Electrical Calibration via measuring ranges 0-20 mA; 4-20 mA; 0-1 V; 0-10 V	0520 1000
ISO/DKD calibration certificates are possible for all loggers at freely selectable points within the measuring range. Contact us for more information.	

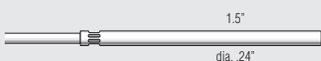
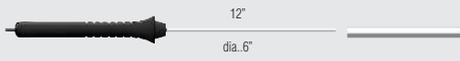
Stationary Probes for testo 175/177

Ordering Information



Accurate NTC probes for testo 175-T2, 177-T3, 177-H1 data loggers						
Description	Illustration	Meas. range	Accuracy	Sec	Connection Cable length	Part no.
Stub probe, IP 54	 1.4" dia. .12"	-4 to +160 °F	±0.4 °F (-4... +104 °F)	15 s		0628 7510
Mounting probe with aluminium sleeve, IP65	 1.5" dia. .24"	-4 to +190 °F	22 to 160 °F=+0.2K rem. range +0.5K	60 s	Fixed cable 7.9 ft.	0628 7503*
Accurate immersion/penetration probe, IP 67	 1.5" dia. .12"	-31 to +180 °F	±0.4 °F (-13 to +170°F) ±0.7 °F (-31 to -13 °F) ±0.7 °F (+170 to +180 °F)	5 s	Fixed cable 20 ft.	0610 1725*
Screw-in probe for measurements in difficult to access places, M6 thread, IP 54		-60 to +180 °F	±0.5% of reading (+212 to +300 °F)	70 s	Fixed cable 6 ft.	0628 7514*
Probe for surface measurement	 1.5" .32" x .32"	-60 to +180 °F	±0.4 °F (32 to +170°F)	150 s	Fixed cable 6 ft.	0628 7516*
Wall surface temperature probe, i.e. as proof of damage to building material		-60 to +180 °F	±0.4 °F (32 to +170 °F)	20 s	Fixed cable 9 ft.	0628 7507
Pipe probe with Velcro, for pipe diameter of max. 3"	 12" 1.2"	-60 to +160 °F	±0.4 °F (-13 to +170 °F) ±0.7 °F (-60 to -13 °F)		Fixed cable 4.9 ft.	0613 4611
Food probe (IP65) made of stainless steel, PUR cable up to +180 °F can be used, IP54 plug-in connection	 5" dia. .16" 6" dia. .12"	-60 to +300 °F	±0.5% of read. (+212...+300 °F) ±0.4 °F (-13 to +170 °F) ±0.7 °F (-60 to -13 °F) ±0.7 °F (+170 to +212 °F)	8 s	Fixed cable 4.9 ft.	0613 2211*
Rugged food penetration probe with special handle, IP 65, reinforced cable (PUR) and reinforced bending protection	 4.5" .18" 1.2" dia. .14"	-60 to +300 °F	±0.5% of read. (+212 to +300 °F) ±0.4 °F (-13 to +170 °F) ±0.7 °F (-60 to -13 °F) ±0.7 °F (+170 to +212 °F)	7 s	Fixed cable 4.6 ft.	0613 2411*
Frozen food probe, no drilling required	 4.3" dia. .32" 1.2" dia. .14"	-60 to +280 °F	±0.5% of read. (+212 to +280 °F) ±0.4 °F (-13 to +170 °F) ±0.7 °F (-60 to -13 °F) ±0.7 °F (+170 to +212 °F)	20 s	Plug-in cable 4.9 ft.	0613 3211*
Rugged, affordable air probe, to check storage temperature, for example	 4.3" dia. .16"	-60 to +300 °F	±0.5% of read. (+212 to +300 °F) ±0.4 °F (-13 to +170 °F) ±0.7 °F (-60 to -13 °F) ±0.7 °F (+170 to +212 °F)	60 s	Fixed cable 3.9 ft.	0613 1711*

* Probe tested in accordance with EN 12830 as to suitability for transport and storage

Accurate thermocouple probes for testo 175-T3, 177-T4 data loggers						
Description	Illustration	Meas. range	Accuracy	Sec.	Connection Cable length	Part no.
Mounting probe with stainless steel sleeve	 1.5" dia. .24"	-60 to +400 °F	±1.5	20 s	Fixed cable 6 ft.	0628 7533
Pipe wrap probe with Velcro, for temperature measurement on pipes with diameter to max. 4.7", Tmax +250 °F	 15.5" .78"	32 to +250 °F	Class 1	90 s	Fixed cable 4.9 ft.	0628 0020
Pipe wrap probe for pipe diameter .17" to 2.5", with exchangeable meas. head Measuring range short-term to +540 °F		-80 to +266 °F	Class 2	5 s	Fixed cable 3.9 ft.	0602 4592
Mounted surface temperature probe with outer thread M 14x1.5 and 2 nuts, quick-action surface probe with cross-band		-60 to +360 °F	Class 2	3 s	Fixed cable 6 ft.	0628 7521
Thermocouple, flexible, 60" long, fibre glass	 59" dia. .6"	-60 to +750 °F	Class 2	5 s		0602 0645
Thermocouple, flexible, 60" long, Teflon	 59" dia. .6"	-60 to +480 °F	Class 2	5 s		0602 0646
Immersion measurement tip, bendable	 .20" dia. .6"	-330 to +1832 °F	Class 1	5 s		0602 5792
Magnetic probe, adhesive force approx. 10 N, with adhesive magnets, for higher temperatures, for measurements on metal surfaces	 3" dia. .8"	-60 to +750 °F	Class 2		Fixed cable 5 ft.	0602 4892
Water-tight immersion/penetration probe	 4" dia. .16" 1.2" dia. .13"	-80 to +750 °F	Class 2	7 s	Fixed cable 3.9 ft.	0602 1292
Accurate and fast immersion probe, water-tight	 12" dia. .6"	-80 to +1832 °F	Class 1	2 s	Fixed cable 3.9 ft.	0602 0592
Robust, affordable air probe	 4" dia. .6"	-80 to +750 °F	Class 2	25 s	Fixed cable 3.9 ft.	0602 1792

☑ The protection class specified for the data loggers are achieved with these probes.



testo 174/175/177

Ordering Information

Qty.	Description	Part no.		
	testo 175-T1 logger with display , 1 channel temperature logger	0563 1754		
	testo 175-T2 logger with display , 2 channel temperature logger	0563 1755		
	testo 175-T3 logger with display , 2 channel temperature logger	0563 1756		
	testo 175-S1 logger without display , 1 channel current/voltage logger	0563 1759		
	testo 175-H1 logger without display , 2 channel humidity/temperature logger	0563 1757		
	testo 175-H2 logger with display , 2 channel humidity/temperature logger	0563 1758		
	testo 177-T1 logger without display , 1 channel temperature logger	0563 1771		
	testo 177-T2 logger with display , 1 channel temperature logger	0563 1772		
	testo 177-T3 logger with display , 3 channel temperature logger	0563 1773		
	testo 177-T4 logger with display , 4 channel temperature logger	0563 1774		
	testo 177-H1 logger with display , 4 channel humidity/temperature logger	0563 1775		
	testo 575 fast printer , infrared thermal line printer	0554 1775		
	Spare thermal paper , 6 rolls/pkg.	0554 0568		
	testo 580 data collector , incl. readout holders for testo 175/177 data loggers	0554 1778		
	ComSoft 3 - Basic Set for testo 175 , easy-to-use software incl. interface, desk-top holder and PC conn. cable	0554 1759		
	ComSoft 3 - Basic Set for testo 177 , easy-to-use software incl. interface, desk-top holder and PC conn. cable	0554 1774		
	ComSoft 3 - Professional , with data management incl. database (without interface)	0554 0830		
	Interface for testo 175/177 , incl. desk-top holders for testo 175/177 (for ComSoft 3 - Professional, please order)	0554 1757		
	ISO/NIST Calibration Certificates (see Page 14 and enter Part no.)	0520 _____		

Qty.	Description	Part no.		
	 <p>testo 174 data logger Large display in a small casing which shows current reading, max./min. values, programmed limit values or battery life in days. Secure data – even when battery is dead Measuring range: -22 to +160 °F Memory: 3900 readings <i>(not for use with testo 580 data collector and testo 575 printer)</i></p>			
	Starter Set with testo 174 mini temperature data logger, ComSoft 3 - Basic, wall holder and interface incl. PC connection cable	0563 1742		
	testo 174 mini temperature data logger , incl. wall holder and lock	0563 1741		
	Please send me more information on testo 174	0986 3953		

All information and pricing subject to change without notice



Please send me information on testostor 171:

Data logger with aluminium casing
Read out and program using PALM® PDA



Please send me information on testo 454:

System logger with up to 200 measurement channels

Contact info:

Testo Inc.
35 Ironia Rd.,
Flanders, NJ 07836
Fax: 973-252-1729
Toll free: 800-227-0729
e-mail: info@testo.com
www.testo.com

Distributor: