Be sure. testo

Museum and Archives Monitoring system

testo 160 – Monitoring system for the monitoring of temperature, humidity, light intensity, barometric pressure, UV radiation, and CO₂ concentration.

Measurement values transfer by wireless LAN to the Cloud storage

Measurement values can be accessed on any device with a browser

Text message or email alarms

Small devices designed to blend in with surroundings

Paintable deco-cover to match surrounding color

°C / %RH Lux UV CO_ mbar testo Saveris 2 App for free download Google Play

The testo 160 Museum and Archives Monitoring System monitors ambient conditions in display cases, exhibition rooms, and storage rooms. The loggers transfer measurement values by wireless LAN to the Testo Cloud. You can access all data at any time with the testo Saveris 2 App or by PC/tablet/smartphone and a normal browser. If limit values are exceeded, an alarm is immediately provided by text message and/or email. For light intensity, an alarm can also be triggered if the accumulated light quantity within a day, a week or a month exceeds a limit value. Testo 160 loggers can be easily hidden within the exhibit area thanks to paintable deco-covers. The temperature and humidity probe with wall bushing is ideal for monitoring small display cabinets in which a data logger cannot be placed.

The testo 160 enables you to check all relevant ambient conditions, in order to safeguard the value of the exhibits and fulfill the obligation of documentation.

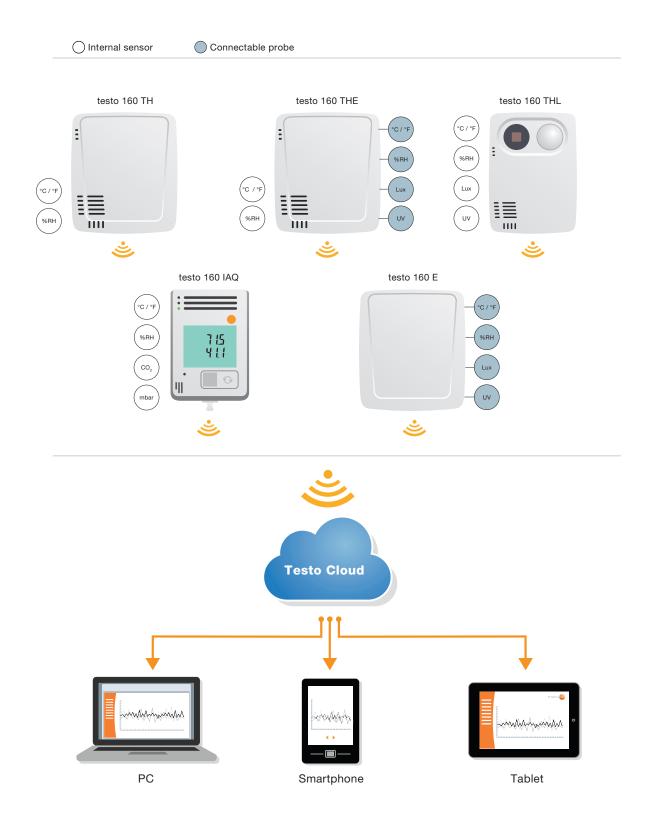
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How indoor climate monitoring works with testo 160.

With the testo 160 monitoring system, you have instant access to the state of environmental conditions effecting your exhibits.



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The testo 160 Cloud

Our packages

The testo 160 Cloud is the central operating hub of the testo 160 monitoring system. This is where you can configure your WiFi data loggers, set alarms limits, and analyze measurement data. To start, you must register at www.museum.saveris.net to have access to the testo 160 Cloud.

Depending on the range of functions you need, you can choose between the free Basic and the more extensive Advanced functionalities. Both packages also allow access to an API interface enabling export of measurement data to your own database system.

	Basic	Advanced		
Measuring cycle	15 min. to 24 h	1 min. to 24 h (selectable)		
Communication cycle	15 min. to 24 h	1 min. to 24 h (selectable)		
Data storage	Max. 3 months	Max. 2 years		
Reports	Manual (.pdf/.csv)	Manual (.pdf/.csv) Automatic (.pdf/.csv)		
Data analysis	1 measurement channel	Up to 10 measurement channels simultaneously		
Number of users per account	1	10		
Number of WiFi data loggers per account	Unlimited	Unlimited		
Alarm options	Upper/lower alarm limits	 Upper/lower alarm limits Alarm delay Time control of alarms 		
System notifications	 Low battery notification Radio link interrupted Power supply interrupted 	 Low battery notification Radio link interrupted Power supply interrupted 		
Email alarm	Yes	Yes		
Text message alarm	No	 Incl. 25 text msgs per logger per year Additional text msg packages available 		
		12-month license24-month license36-month licenseorder no.order no.order no.0526 07350526 07320526 0733		

Register now: www.museum.saveris.net

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Ordering data WiFi data loggers



testo 160 THE

testo 160 THE Wi-Fi data logger with internal temperature and humidity sensors and two external port connections (S-T/RH, S-Lux/UV or S-Lux Probes)



Order no. 0572 2023

testo 160 E

Wi-Fi data logger with

Order no. 0572 2022

two external connections for S-T/RH, S-Lux/UV or

testo 160 E

S-Lux probes

Order no. 0572 2021

testo 160 THL

testo 160 THL Wi-Fi data logger with internal temperature and humidity sensors plus Lux and UV sensors



Order no. 0572 2024

testo 160 IAQ

testo 160 IAQ Wi-Fi air quality logger with display and internal sensors for temperature, humidity, CO₂ and atmospheric pressure



Order no. 0572 2014



www.GlobalTestSupply.com



Technical data WiFi data loggers

	WiFi data logger testo 160 TH	WiFi data logger testo 160 THE	WiFi data logger testo 160 THL	WiFi air quality logger testo 160 IAQ	WiFi data logger testo 160 E
Temperature measurement					
Measuring range		-10 to +50 °	°C / 14 to 122 °F		see external
Accuracy	± 0.5 °C / 0.9 °F				probe
Resolution	0.1 °C / 0.1 °F				
Humidity measurement					
Measuring range		0 to	100 %RH		see external
Accuracy	±	probe			
Resolution		0.	1% RH		
Lux measurement					
Measuring range		see external	0 to 20,000 Lux		see external
Accuracy		probe	DIN 5032-7 Class C-compliant. ±3 Lux or ±3 % of reference (DIN 5032 A)		probe
Resolution			0.1 lux		
UV measurement			-		
Measuring range		see external	0 to 10,000 mW/m ²		see external
Accuracy	-	probe	±5 mW/m ² or ±5 % of m.v. (for UV; the larger value applies)		probe
Resolution			0.1 mW/m ²		
CO ₂ measurement					
Measuring range				0 to 5,000 ppm	
Accuracy				±(50 ppm + 2 % of m.v.) at +25 °C / 77 °F Without external power supply: ±(100 ppm + 2 % of m.v.) at +25 °C / 77 °F	
Resolution	-			1 ppm	
Pressure measurement	1				
Measuring range				600 to 1100 mbar	
Accuracy				±3 mbar at +22 °C / 71.6 °F	
Resolution	-			1 mbar	
WLAN+					
Standard			802.11 b/g/n		
Security	WPA2 Enterprise: EAP-TLS, EAP-TTLS-TLS, EAP-TTLS-MSCHAPv2, EAP-TTLS-PSK, EAP-PEAP0-TLS, EAP-PEAP0-MSCHAPv2, EAP-PEAP0-PSK, EAP-PEAP1-TLS, EAP-PEAP1-MSCHAPv2, EAP-PEAP1-PSK, WPA Po sonal, WPA2 (AES), WPA (TKIP), WEP				
General					
Operating temperature	-10 to +50 °C / 14 to 122 °F				
Storage temperature	-20 to +50 °C / -4 to 122 °F				
Protection class	IP20				
Measuring cycle	Dependent on Cloud license / Basic: 15 min to 24 h / Advanced: 1 min to 24 h selectable				
Communication cycle	Dependent on Cloud license / Basic: 15 min to 24 h / Advanced: 1 min to 24 h selectable				
Memory		40,0	000 readings (sum of all c	hannels)	
USB Power supply	Optional				
Battery	alkaline			4 x AA 1.5 V alkaline batteries (optional backup)	4 x AAA 1.5 V alkaline batteries
Battery life (approximate)		18 months*		12 months*	18 months*
Dimensions	64 x 76 x 22 mm 2.51 x 2.99 x 0.87"	64 x 76 x 22 mm 2.51 x 2.99 x 0.87"	64 x 92 x 24 mm 2.51 x 3.62 x 0.94"	82 x 117 x 32 mm 3.29 x 4.6 x 1.26"	64 x 76 x 22 mm 2.51 x 2.99 x 0.87
Weight (incl. batteries)	94 g / 3.31 oz.	94 g / 3.31 oz.	113 g / 3.99 oz.	269 g / 9.49 oz.	96 g / 3.39 oz.

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Accessories

	Order no.
Deco-cover for testo 160 TH / testo 160 THE / testo 160 E	0554 2006
Deco-cover for testo 160 THL	0554 2009
Deco-cover for testo 160 IAQ	0554 2012
Wall bracket for testo 160 TH / testo 160 THE / testo 160 E / testo 160 THL	0554 2013
Wall bracket for testo 160 IAQ	0554 2015
Extension cable for probes, length 0.6 m / 1.7 ft (included with every probe)	0554 2004
Extension cable for probes, length 2.5 m / 8.2 ft.	0554 2005
Display cabinet bushing for temperature and humidity probes (included with every probe)	0554 2016
AAA Alkaline batteries, up to -10 °C / 14 °F, set of 4	0515 0009
AA Alkaline batteries, up to -10 °C / 14 °F, set of 4	0515 0414
External USB power supply	0572 2020
ISO calibration certificate temperature -18 °C, 0 °C, +40 °C	0520 0153
ISO calibration certificate humidity at +25 °C, humidity points 11.3 %RH and 75.3 %RH	0520 0076
ISO calibration certificate light intensity, calibration points 0; 500; 1000; 2000; 4000 Lux	0520 0010
ISO calibration certificate CO ₂ , calibration points 0; 1000; 5000 ppm	0520 0033

Probe

Probe type	Temperature and humidity probes	Lux and UV sensors	Lux sensor
			ette
Measuring range	-10 to +50 °C / 14 to 122 °F 0 to 100 %RH	0 to 20,000 Lux 0 to 10,000 mW/m ²	0 to 20,000 Lux
Accuracy	± 0.5 °C / 0.9 °F ±2 %RH at +25 °C / 77 °F at 20 to 80 %RH ±3 %RH at +25 °C / 77 °F at < 20 %RH and > 80 %RH ±1 %RH hysteresis ± 1% RH / year drift	DIN 5032-7 Class C-compliant. ±3 Lux or ±3 % of reference (DIN 5032 A) ±5 mW/m ² or ±5 % of m.v. (for UV; the larger value applies)	DIN 5032-7 Class C-compliant. ±3 Lux or ±3 % of reference (DIN 5032 A)

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Data management

The testo Saveris 2 App

testo Saveris 2 Apps for iOS and Android, enable access and function operation to the testo 160 Wi-Fi data logger system

Efficient commissioning*:

- Selection of the Wi-Fi network, network strength indicators
- Fast parallel commissioning of several loggers

Easy network analysis*:

- Test the strength and range of your Wi-Fi network
- Create and send status reports

Full alarm functionality:

- · Push notifications when alarm points are crossed
- Combinable with email or text message alarms

*These functions are available only in the Android version of the testo Saveris 2 App.



The testo 160 Cloud

System purchase includes free access to the testo 160 Cloud account website. In the Cloud account, you can view and manage the measurement values stored online and use the email alarm function. The system can also be set up and configured here.

The advantages of the testo 160 Cloud at a glance:

- Central operating hub for the monitoring, documentation, and administration of all measurement locations
- Measurement data security your measurement data is protected from unauthorized access by third parties
- Automatic storage of your measurement values, all measurement data is constantly available for display and reports
- Alarm function for critical pre-set values
- Two license packages, Basic or Advanced with different ranges of operating functions

Maximum flexibility with the Advanced license:

- Measurement timing is freely selectable
- Reports automatically sent by email, report features are selectable
- Management of user profiles user level authorizations
- Additional text message alarms functionality





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Deco-cover

For exhibit halls with colored walls or backgrounds, the paintable deco-covers install over the data loggers to make them blend into your exhibit environment. The loggers stay masked in the background as not to distract from the artwork or exhibits.



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