

## Monitoring system

testo 160 IAQ – Monitoring system for temperature, humidity, atmospheric pressure and CO<sub>2</sub> concentration.

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Measurement value transfer by wireless LAN to the Cloud store

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Measurement values can be called up on all end devices

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Alarm notification by SMS or e-mail

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Inconspicuous design and small dimensions

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Deco-cover for optimum individual adaptation of the logger to the surroundings

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The WiFi data logger testo 160 IAQ monitors the ambient conditions temperature, humidity, atmospheric pressure and the CO<sub>2</sub> concentration in buildings such as public facilities, office complexes and education institutions. The logger transfers measurement values by wireless LAN to the online store (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 SMS and/or e-mail.

Thanks to the optional, individually designable deco-cover, the logger can be integrated inconspicuously in buildings. The testo 160 IAQ thus enables you to check all relevant ambient conditions and fulfil the obligation of documentation.

# The testo 160 Cloud

## Our packages

The testo 160 Cloud is the central operating element of the testo 160 monitoring system. Here you can configure your WiFi data loggers, set limit value alarms and analyze measurement data. You must first register at [www.saveris2.net](http://www.saveris2.net) to have access to the testo 160 Cloud.

Depending on the range of functions you require, you have a choice between the free Basic and the more extensive Advanced functionality: In both packages, you have access to an API interface, in order to export measurement data to your systems.

|  | Basic   | Advanced   |  |  |  |
|--|---|--|--|--|--|
| <b>Measuring cycle</b>                         | 15 min. to 24 h   | 1 min. to 24 h   |  |  |  |
| <b>Communication cycle</b>                     | 15 min. to 24 h   | 1 min. to 24 h   |  |  |  |
| <b>Data storage</b>                            | Max. 3 months   | Max. 2 years   |  |  |  |
| <b>Reports</b>                                 | Manual (.pdf/.csv)  | Manual (.pdf/.csv)<br>Automatic (.pdf/.csv)  |  |  |  |
| <b>Data analysis</b>                           | For one measurement channel in each case  | For up to 10 measurement channels simultaneously   |  |  |  |
| <b>Number of users per account</b>             | 1   | 10   |  |  |  |
| <b>Number of WiFi data loggers per account</b> | Unlimited   | Unlimited  |  |  |  |
| <b>Alarm options</b>                           | Upper/lower alarm limits  | <ul style="list-style-type: none"> <li>• Upper/lower alarm limits</li> <li>• Alarm delay</li> <li>• Time control of alarms</li> </ul>  |  |  |  |
| <b>System notifications</b>                    | <ul style="list-style-type: none"> <li>• Notification of low battery</li> <li>• Radio link interrupted</li> <li>• Power supply interrupted</li> </ul> | <ul style="list-style-type: none"> <li>• Notification of low battery</li> <li>• Radio link interrupted</li> <li>• Power supply interrupted</li> </ul>  |  |  |  |
| <b>E-mail alarm</b>                            | Yes   | Yes  |  |  |  |
| <b>SMS alarm</b>                               | No  | <ul style="list-style-type: none"> <li>• Including 25 SMS per logger and year</li> <li>• More SMS packages purchasable</li> </ul>  |  |  |  |
|  |   | <table border="1"> <tr> <td>12-month licence<br/>order no.<br/>0526 0735</td> <td>24-month licence<br/>order no.<br/>0526 0732</td> <td>36-month licence<br/>order no.<br/>0526 0733</td> </tr> </table> | 12-month licence<br>order no.<br>0526 0735 | 24-month licence<br>order no.<br>0526 0732 | 36-month licence<br>order no.<br>0526 0733 |
| 12-month licence<br>order no.<br>0526 0735     | 24-month licence<br>order no.<br>0526 0732  | 36-month licence<br>order no.<br>0526 0733   |  |  |  |

Register now: [www.saveris2.net](http://www.saveris2.net)

## Ordering data/technical data

### testo 160 IAQ

testo 160 IAQ WiFi air quality logger with display and integrated sensors for temperature, humidity, CO<sub>2</sub> and atmospheric pressure



Order no. 0572 2014

## Accessories

|   | Order no. |  |
|---|-----------|--|
| Deco-cover for testo 160 IAQ  | 0554 2012 |  |
| Wall bracket for testo 160 IAQ  | 0554 2015 |  |
| Alkaline manganese mignoncell<br>AA batteries up to -10 °C, order 4 off                     | 0515 0414 |  |
| External USB power supply   | 0572 2020 |  |
| ISO calibration certificate temperature<br>-8 °C, 0 °C, +40 °C                              | 0520 0171 |  |
| ISO calibration certificate humidity<br>at +25 °C, humidity points 11.3 %RH and<br>75.3 %RH | 0520 0076 |  |
| ISO calibration certificate CO <sub>2</sub> ,<br>calibration points 0; 1000; 5000 ppm       | 0520 0033 |  |

| Temperature measurement  |  |
|--|--|
| Measuring range  | 0 to +50 °C  |
| Accuracy   | ± 0.5 °C   |
| Resolution   | 0.1 °C   |
| Humidity measurement   |  |
| Measuring range  | 0 to 100 %RH (non-condensing)  |
| Accuracy   | ±2 %RH at +25 °C and 20 to 80 %RH<br>±3 %RH at +25 °C and < 20 %RH<br>and > 80 %RH<br>±1 %RH hysteresis<br>±1 %RH / year drift   |
| Resolution   | 0.1% RH  |
| CO <sub>2</sub> measurement  |  |
| Measuring range  | 0 to 5,000 ppm   |
| Accuracy   | ±(50 ppm + 3 % of m.v.) at +25 °C<br>Without external power supply:<br>±(100 ppm + 3 % of m.v.) at +25 °C  |
| Resolution   | 1 ppm  |
| Pressure measurement   |  |
| Measuring range  | 600 to 1100 mbar   |
| Accuracy   | ±3 mbar at +22 °C  |
| Resolution   | 1 mbar   |
| WLAN   |  |
| Standard   | 802.11 b/g/n   |
| Security   | WPA2 Enterprise: EAP-TLS, EAP-TTLS-TLS,<br>EAP-TTLS-MSCHAPv2, EAP-TTLS-PSK,<br>EAP-PEAP0-TLS, EAP-PEAP0-MSCHAPv2,<br>EAP-PEAP0-PSK, EAP-PEAP1-TLS,<br>EAP-PEAP1-MSCHAPv2, EAP-PEAP1-PSK,<br>WPA Personal, WPA2 (AES), WPA (TKIP),<br>WEP |
| General  |  |
| Operating temperature  | 0 to +50 °C  |
| Storage temperature  | 0 to +50 °C  |
| Protection class   | IP20   |
| Measuring cycle  | Dependent on Cloud licence<br>Basic: 15 min to 24 h<br>Advanced: 1 min to 24 h   |
| Communication cycle  | Dependent on Cloud licence<br>Basic: 15 min to 24 h<br>Advanced: 1 min to 24 h   |
| Memory   | 32,000 readings (sum of all channels)  |
| Voltage supply<br>(alternatively<br>mains unit via USB<br>connection)                          | 4 x AA alkaline manganese batteries 1.5 V  |
| Battery life (depending<br>on the measuring and<br>communication cycle<br>vis-a-vis the Cloud) | 1 year   |
| Dimensions   | 117 x 82 x 32 mm   |
| Weight<br>(including batteries)  | 269 g  |

# Data management

## The testo Saveris 2 App

With the testo Saveris 2 App for iOS and Android, you now operate the wireless LAN data logger system testo 160 even more easily and flexibly.

**More efficient commissioning\*:**

- Easy recognition and selection of the WiFi network
- Faster parallel commissioning of several loggers

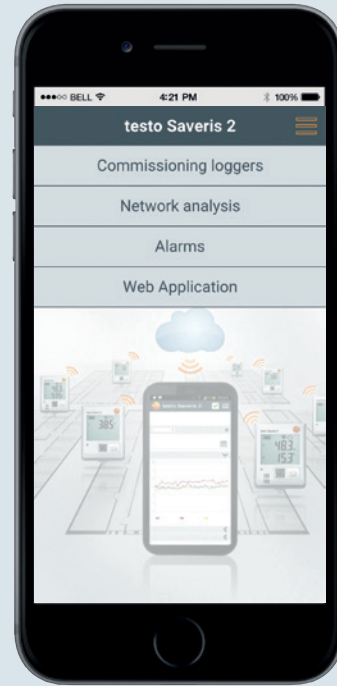
**Easy network analysis\*:**

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

**Reliable alarm functions:**

- Push notifications of limit value violations
- Combinable with e-mail or SMS alarms

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



**testo Saveris 2 App**

for free download



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Subject to change without notice.

