

AccuFlux[®]

Integrity Test Instrument



AccuFlux® Integrity Tester



The AccuFlux® integrity tester demonstrates Meissner's commitment to develop smart products that reduce process risk and enhance operator convenience. The AccuFlux® is robust and easy to use. It delivers the highest level of accuracy in performing the following filter integrity tests for critical process applications:

- ✓ Diffusive flow
- ✓ Water intrusion
- ✓ Pressure hold
- ✓ Bubble point

The AccuFlux® utilizes three mass flow meters to provide the greatest level of accuracy at all points throughout the standard 0 – 250 mL/min flow range. These flow meters provide the high level of flow control that allows the diffusive flow test to be performed in less than three minutes on systems containing up to three 40" filter elements without sacrificing accuracy. Bubble point tests use Meissner's TransVector™ algorithm and a highly accurate pressure sensor to provide test results in 90 seconds.

The AccuFlux® features a 15" color multi-touch user interface that is intuitive and easy to use. The AccuFlux® system's recipe driven test setup allows users to perform integrity tests seconds after the instrument is turned on. Once powered up, the user logs directly into the test screen, where test recipes are available for selection. From there, a user can review the displayed test data and perform an integrity test with the touch of a button. While the test is being performed, all test settings and data are being stored in up to three locations. Upon completion of a test, the user must acknowledge the result and a test report is generated and saved to a PDF file. Test data can be viewed from the system's History screen. Setup of test recipes is simplified because Meissner filter data is preloaded in the system. The recipes for filters from other manufactures are easily entered manually.

Test data entry and recipe setup is limited to users of a specified permission level. A portion of what makes the AccuFlux® system 21 CFR Part 11 compliant is its multi-tiered user administration system. This system requires all users to have a unique user name and password.

The AccuFlux® system's functionality and user experience is enhanced by the following features:

- ✓ Preinstalled filter data for Meissner filters
- ✓ Tiered user system, including unique user login accounts
- ✓ Live test data stored to CSV file
- ✓ Recipe driven storage system for storing filter data, system data, and test setups
- ✓ Multiple selectable save locations, including network locations and USB devices
- ✓ Built-in self checks and tests, including internal/external leak test and source pressure check
- ✓ Auto-generated, non-editable, PDF test certificate
- ✓ 21 CFR Part 11 Compliant

Product Specifications

Operating System

Windows 10

PC

B&R industrial PC

1.91 GHz, quad-core processor

8 GB RAM

128 GB storage

User Interface

15.6" color multi-touch display

Touch Type: Projected capacitive

Resolution: 1920 x 1080 full HD

Connectivity

2.0 USB (3 qty.)

3.0 USB (1 qty.)

24 VDC, 5A power output

RJ45, Ethernet

WLAN (optional)

Bluetooth (optional)

Standard Sensor Range

Low flow: 0 – 8 mL/min

Medium flow: 0 – 40 mL/min

High flow: 0 – 250 mL/min

Pressure: 0 – 100 PSIG (0-6.9 Bar)

Sensor Accuracy

Flow meters: $\pm 0.5\%$ Rd; $\pm 0.1\%$ FS

Pressure sensor: $\pm 0.15\%$ FS

Functional Tests

Printer test

Network test

Internal leak test

External leak test

Source pressure test

Power Requirement

100-240 VAC, 50/60 Hz input power
(Internal voltage: 24 VDC)

Power: 100 W typical, 200 W peak

Physical Dimensions

W x D x H

14.2" x 19.0" x 11.1"

(36.0 cm x 48.3 cm x 28.1 cm)

Pneumatic Requirement

Minimum gas supply pressure:
110 PSIG (7.6 Bar)

Maximum gas supply pressure:
125 PSIG (8.6 Bar)

Gas supply type: Clean dry air

Pneumatic Connections

Air inlet: Color coded,
keyed Stäubli coupling

Air outlet: Color coded,
keyed Stäubli coupling

Vent inlet: Color coded,
keyed Stäubli coupling

Vent outlet: Color coded,
keyed Stäubli coupling

Enclosure

304 stainless steel

Dust and splash resistant

Environmental Conditions

Operating temperature range:
60 °F to 80 °F (16 °C to 27 °C)

Storage temperature range:
-4 °F to 122 °F (-20 °C to 50 °C)

Maximum humidity:
95% R.H. (No condensation)

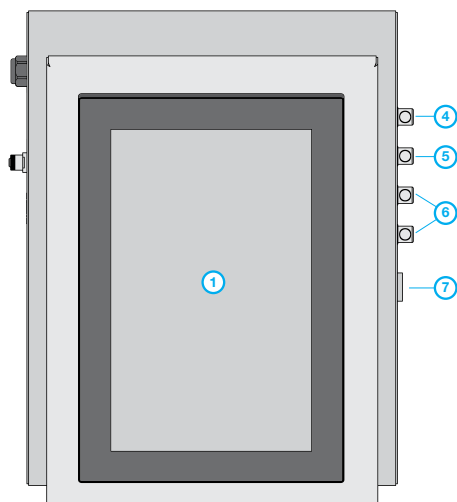
The AccuFlux® system employs a quad-core, Windows 10 industrial PC with an integrated 15" full color, multi-touch screen. The use of a powerful PC is a must when running today's antivirus software and yields great benefits when integrating the system with a network using standard Windows-based accessories and applications and connecting the system to other network devices and printers.

The AccuFlux® integrity test instrument features:

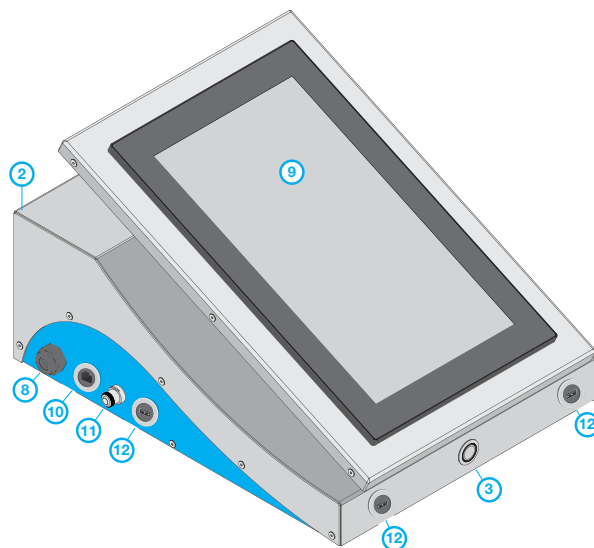
- ✓ Windows 10 full function industrial PC
- ✓ 15" full color multi-touch user interface
- ✓ Windows printer, device and accessory compatibility
- ✓ Three high accuracy mass flow meters
- ✓ High accuracy pressure sensor
- ✓ Integrated calibration functionality
- ✓ Standard network security and virus protection protocol compatibility
- ✓ Availability of factory calibration services
- ✓ Keyed and color coded process connections
- ✓ Unitized manifold design

AccuFlux® Key Features

Top View



Side View



- | | |
|---|--|
| ① 15" color multi-touch user interface | ⑧ Universal 100-240V, 50/60 Hz AC power |
| ② Splash and dust resistant enclosure | ⑨ Full function Windows 10 PC |
| ③ Illuminated power button | ⑩ Network & remote accessibility via RJ45 Ethernet connection |
| ④ Source air inlet with Stäubli connector | ⑪ Auxiliary 5A, 24 VDC power output |
| ⑤ Air outlet with Stäubli connector | ⑫ USB accessory port (allows connection to barcode scanner, keyboard, mouse, flash drive, wireless network adapter, Bluetooth adapter) |
| ⑥ Exhaust inlet and outlet with Stäubli connector | |
| ⑦ High speed USB 3.0 | |

Ordering Information

AccuFlux® Model

AX

S234

SE

AX

S234 = Standard flow range 0 - 250 mL/min

SE

= Standard splash and dust resistant enclosure