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A trusted leader in measurement and calibration solutions.

#### First things first

General purpose use only
Autoclave Analyzer
This device is not intended for hazardous locations

Autoclave Analyzer is a diagnostic instrument for measuring temperature & pressure of Autoclave sterilization systems. The Autoclave Analyzer is not used to verify successful sterilization. The Autoclave Analyzer is not a medical device, and does not have an FDA product class.

The device is intended for indoor (climate controlled) use and storage.

#### **Receiving & unpacking**

#### Don't lose any components

- Take care not to lose any of the components.
- *Optional:* Autoclave accessories are shipped in a separate box from the device.
- Review the packing list to confirm that you received all components.

## Operating temperatures

For accurate measurements, the ambient temperature must be within 41 °F to 104 °F.

#### Storage temperatures

The recommended storage temperature is between: 32  $^\circ F$  to 140  $^\circ F$ 

## Pressure sensor ranges

Minimum rated pressure: -14.5 psi gauge. Maximum rated pressure: 110 psi gauge.

#### *Temperature sensor ranges* Functional range: -50 °C to 250 °C

#### Power requirement

Input: 12 V dc to 24 V dc @ 3 A maximum with
 Ø 2.1 mm barrel port.

## Autoclave Analyzer & accessories

#### Items included with the Autoclave

- The device has:
  - 10.2 in. Touch-Panel computer.
  - Four RTD temperature sensors.
  - Two Compound Isolated 100 psi pressure sensor ports.
- One wireless keyboard and mouse.
- One soft-sided carrying bag.

## Optional: Accessories kit

- Four 3.3 m 4 pin M12 M-F A coded cables.
- Four Class A RTD M12 A coded probe connectors.
- Two 3 m FVCO-FVCO 100 psi minimum rated steam pressure hoses.
- Two 1/8 in. MNPT-MVCO pressure fittings.

## Test setup

- 1. Turn on the device and wait for the **Setup** mode to appear.
- 2. Install RTD probes into the Autoclave under test.
- 3. Connect the M12 cables between the RTD probes and the Autoclave Analyzer.
- 4. Connect the hoses to the Cl100 sensor ports. An adapter fitting may be necessary.
- 5. Use PTFE tape for NPT fittings.
- 6. Zero the pressure sensors. The user manual has instructions for zeroing them.
- Connect the other ends of hoses to the appropriate port fittings installed into the autoclave under test.
- 8. Configure the test settings of the Autoclave Analyzer.
- 9. Press the **Record** button.

Notes: The test automatically stops after the specified duration or after you tap Stop. Review mode appears after the test stops.

- 10. Once the test is completed, review or transfer data to USB drive.
- 11. Tap the **Return** button to view Live data in the six indicators.

# **Autoclave Analyzer**

## **Quick Start Guide**

## Perform these checks before using

## Preventing injuries

- Check the specified pressure and temperature connection types and rating ranges for accessories.
- 2. Only use accessories from other vendors that match the connection type or ratings of the device sensors.
- 3. Examine the power cord and adapter to make certain they are not damaged.
- 4. Place the device on a flat, stable surface before connecting cables or hoses.
- 5. Check the steam pressure hoses to make certain they have no cracks, holes, defects, or unusual wear and tear.
- Look for cracks, residue, or other damage around the sensor ports. If you see any, don't use the device. Contact the appropriate people.
- Check all input, hose, and cable connections to make sure they are correctly and securely attached.
- 8. Check the computer screen to make sure it is not cracked or damaged.

## Additional items to be aware of

- Don't let sharp or hard objects touch the screen.
- 2. Using the device above 6561 ft (2000 m) may display unreliable results.
- 3. Refer to the user manual for use and safety precautions.

#### **Repacking the Autoclave Analyzer**

#### Shutting down properly

Don't unplug the power cord while the application is running.

- 1. Tap Shutdown on the Menu.
- 2. After the computer turns off, unplug the power cord.

#### Hardware

- 1. Unplug the power cord.
- Disconnect the RTD cables from the sensor panel.
- 3. Disconnect the steam pressure hoses from the sensor panel.
- 4. Drain the water from the hoses.
- 5. Dry the hoses.

#### Cleaning

- 1. Turn off the device and unplug the power cord before cleaning.
- 2. Clean the device once a month using a damp, lint-free cloth—water or isopropyl alcohol only.

#### Maintenance

Factory calibration once a year.

## Troubleshooting tips

# *Temperature measurements display dashes*

- The RTDs are not properly connected.
- Check the connections of the RTD cable on the panel and on the RTD.
- 2. If the connections are good, then swap the cable at the port.

Did the dashes follow the cable? **Yes** - the port is ok.

**No** - the port is the problem not the cable.

If **yes**, then swap the cable at the probe.

Did the dashes follow the cable? Yes - the cable is the problem. No - the probe is the problem.

#### No measurements in the graph

Pressure and temperature measurements don't appear in the graph.

- 1. The Visibility controls may be turned off. Tap them to see if they turn on.
- 2. The networked sensors may have locked up.
  - 1. Turn the computer off.
  - 2. Wait 1 minute.
  - 3. Turn the computer on.

#### Troubleshooting tips

*The time is not correct* The time stamp that appears in the graph and in the

data table isn't correct.

- 1. Set the computer's clock.
- 2. Tap the Date and Time on the taskbar on the bottom of the screen.

# The application didn't start automatically

- 1. Press and hold the power button to turn the device off.
- 2. Press the power button to turn the device on.

#### How to contact us

#### **Contact Sales**

If you have any issues, questions, or suggestions, please contact Sales at Western Enterprises using one of the following methods.

#### Meriam brought to you by:

Western / Scott Fetzer Co. 875 Bassett Rd. Westlake Ohio 44145 USA

#### (800) 817-7849

www.WesternEnterprises.com www.Meriam.com

## **Quick Start Guide**