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Meriam.com

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 °F to 140 °F

Pressure sensor ranges

Minimum rated pressure: -14.5 psi gauge.

Maximum rated pressure: 100 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 4 Pin Mini Din 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.
- Power cord/AC adaptor

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.
- Four 1/8 in. MNPT-MVCO pressure fittings.

Test setup

- Connect the power cord to Autoclave Analyzer and plug in the AC power adapter.
- Inspect the pressure hoses, temperature cables, and probes.
- Install the RTD probes into the autoclave under test. Connect the M12 cables between the RTD probes and the Autoclave Analyzer.
- Connect the hoses to the Autoclave Analyzer. An adapter fitting may be necessary. Use PTFE tape for NPT fittings.
- Connect the other ends of hoses to the appropriate fittings installed into the autoclave under test.
- Turn on the device and wait for the **Setup** mode to appear.
- Zero the pressure sensors. Zeroing removes the change in atmospheric pressure.
- Set required measurement units and sensor names.
- Confirm the Autoclave Analyzer is reading reasonable process values.
- Set the test parameters you require: Operator, Location, Test name, Interval, Duration.
- Setup cycle for autoclave under test.
- Press **Record** button on the Autoclave Analyzer.
- Start the autoclave cycle.
Note: The test automatically stops after the specified duration or after you tap Stop. Review mode appears after the test stops.
- Transfer data to the USB drive to analyze the data later.
- Tap the **Return** button to view Live data in the six indicators.

Perform these checks before using

Preventing injuries

- Check the specified pressure and temperature connection types and rating ranges for accessories.
- Only use accessories from other vendors that match the connection type or ratings of the device sensors.
- Examine the power cord and adapter to make certain they are not damaged.
- Place the device on a flat, stable surface before connecting cables or hoses.
- 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 personnel.
- Check all input, hose, and cable connections to make sure they are correctly and securely attached.
- 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.
- Using the device above 6561 ft (2000 m) may display unreliable results.
- 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 **Power off** in the **Menu**.
2. After the computer turns off, unplug the power cord.

Hardware

1. Unplug the power cord.
2. 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 ???

The RTDs are not properly connected.

1. 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.

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