

Handling and maintenance instructions for eGate measurement devices

The following instructions apply to all eGate measurement devices:

- eGate devices contain no user-serviceable parts except for replaceable batteries.
- When replacing batteries, care must be taken to avoid touching or damaging any internal components.
- The devices are precision measurement instruments and must be handled carefully, avoiding strong impacts and drops.
- If a device is suspected to be damaged or providing incorrect readings, it must immediately be sent to factory service for inspection and any necessary actions.
- If measurement accuracy verification is required, it must be performed using:
 - A sealed, thermally insulated box (plastic, **not Styrofoam**).
 - All devices must be at room temperature, clean, and dry before verification.
 - All devices and the reference sensor must stabilize for at least 2 hours before comparison.
 - At the time of comparison, no reading may drift; only the last decimal may vary.
- Devices should be cleaned externally when visibly dirty.
- Clean using a soft cloth moistened with water or a mild detergent solution; microfiber cloth recommended.
- Never use strong solvents, abrasive materials, or sharp objects.
- Liquids must never enter the device.
- Additional labels may be attached but must not cover identification markings or any openings.
- Devices must be protected against mechanical impacts and splashing liquids.
- Devices must also be protected from direct sunlight.

Special instructions for nSens sensors:

- nSens sensors are highly sensitive to mechanical impacts.
- During transport, always use cushioned packaging (polyester recommended).
- Do not drop or strike the sensor during installation or removal.
- Excessive impact may detach the internal electrolyte droplet, causing measurement failure.
- The sensor may operate in near-100% humidity but must never be submerged or fully wetted.
- If exposed to strong impact or moisture, send to factory service.
- **Annual factory calibration is recommended.**

Special instructions for DUST sensors:

- DUST sensors in dusty environments require more frequent cleaning.
- Clean when returned from a site; on-site cleaning at least twice per year, or monthly in very dusty environments.
- Wipe externally with a damp cloth.
- Internal dust may be removed with an electronics-grade compressed air canister.
- No compressor air may be used due to oil, moisture, and excessive pressure risk.

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Special instructions for KOMBI sensors:

- KKOMBI devices measuring CO₂ must be exposed to clean outdoor CO₂ levels at least once a week (428 ppm in Jan 2026).
- This typically occurs in spaces without continuous human presence and with functioning ventilation.
- If used in spaces with constantly elevated CO₂, move the device outdoors (or an equivalent clean-air space) weekly for at least two hours.
- The silicone tubing is connected to the right-hand port when viewed from the front of the device and routed out of the measured space.
- The inner diameter of the silicone tubing must be at least 4 mm.
- The maximum length of the silicone tubing is 3 meters (the shorter the tubing, the more accurate the measurement).
- The silicone tubing must not have any kinks, flattening, or sharp bends.

Calibration intervals (per calibration certificate):

- Thermo device: 24 months
- All other device types: 12 months