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Vaisala CT25K Ceilometer Daily Operations Procedures

I. Purpose:

This document describes the required daily care and maintenance of the Vaisala CT25K Ceilometer that are conducted at the TWP facilities and the AMF.

II. Cautions and Hazards:

- Do not use coarse paper to clean the ceilometer window.
- Do not open maintenance door during rain or service the unit with the power on.
- Do not look at the ceilometer with magnifying optics.

III. Requirements:

- Soft, lint-free cloth or Kimwipes
- Mild detergent
- Distilled water

IV. Procedure:

A. Warnings and Alarms

Check alarms by looking for something other than 0 in the second character of the data line (refer to mentor or contacts); if CT VIEW is running, a warning (in the status box) is displayed on the screen.

B. Window Cleaning

The window should be cleaned once per week with a soft lint free cloth and mild detergent or sooner if the last field in the data line shows a warning (something like 00800300 where the 8 means only the window is contaminated or 00C00300 if the window is contaminated and the power is low) a W should also appear in the second character. CT-VIEW will displays this warning (in the status box).

C. Troubleshooting

In case of malfunction, do the following:

1. Check the cable connections.
2. Check the presence and correctness of line voltage (frequency 45-65 Hz).

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3. Check the operation states of the LEDs in the device.
4. At the data line, check that the connection and the configuration is correct.
5. Switch on the device (internal switches to **ON**).
6. Check the data messages by using the maintenance terminal.
7. Check the adjustment of the device (section 4.5 in manual).
8. Check the status message (section 4.4.4 in manual).

V. References:

None.

VI. Attachments:

None.