

Condensation: Not to be Confused with Leaking

The presence of condensation on the inside of a photocontrol is a **normal occurrence** and should not be interpreted as controller failure. It is commonly, and incorrectly attributed to a flaw in the rainproof quality of the control. The truth is that moisture in the control has condensed due to temperature change and will dissipate resulting in **no harm to the photocontrol or its operation.**

It is normal for photocontrols to “breathe” with changes in temperature or barometric pressure. A percent of the internal air is expelled as it expands, and new air is drawn into the enclosure as the inside air contracts. The air inside the control, just like the air outside, has humidity in it. After a hot and humid day, the temperature drops and the air can't

support the same amount of water vapor so some condenses out as small droplets or fog that can be seen on the inside surface of the window.

Moisture will dissipate resulting in no harm to the photocontrol or its operation.

The outside surfaces cool first causing condensation to occur. This is natural and actually prevents the moisture from forming on the circuit board and electrical connections. When the sun rises the condensation evaporates as the day becomes warmer, drying out the control (and often the lighting fixture in a similar matter).

Condensation has never been the cause of any Precision photocontrol failure. Precision Multiple Controls has millions of controls installed in very tough environments throughout the world.

It is not unusual for the lineman to investigate a trouble site and see the condensation on the inside window of the photocontrol, and incorrectly diagnose the control as the cause of failure. **However, a quick glove test will prove the control is operational.** PMC controls conform to weatherproof requirements of ANSI standards. Combine our window and cover design with high quality UV and weather resistant plastics, and leaking enclosures are a thing of the past.

Don't confuse condensation with an enclosure that leaks.