



Bulletin

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Why do I need a SPAD

Have you EVER had a controller that fed and bled after the system pump was turned off? Was it because the Flow Float stuck open? This occurs on systems where debris or particulates accumulate on the magnetic float. This does not allow it to properly re-seat when the flow is stopped. The sen-

sor is essentially measuring a dead line (no possibility of change) and activating pumps and valves based on the measurement. This can lead to costly water and chemical waste as well as a damaged customer relationship. The SPAD was specifically designed to address this issue.

What it does for you

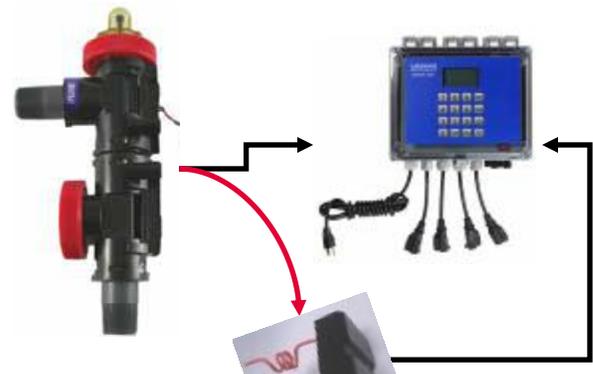
The **S**ensor **P**assive **A**ctivity **D**etector, **SPAD** for short, is used as an alternative or as a backup to a mechanical (Magnetic) flow switch. It is designed to detect the operation of external equipment, such as a recirculation pump. It does this through an antenna placed in proximity to the power line operating that particular pump or another piece of equipment. This allows the determination of flow based on the operation of a system pump instead of and/or in addition to the flow through a pipe. When used by itself, it is a substitute for the flow switch and does NOT require interconnecting it with high power wires like a "donut" power sensor or wir-

ing into a relay that activates with the pump. That requires an Electrician. When used in **SERIES** with the flow switch, you are reassured that the float is UP and the Pump is on before controlling operations. If the main pump is running and the float is down (flow valve'd off) you do not control on a dead line. If the float is stuck open, but the main system pump is not operating, you do not control on a dead line measurement. It is the best of both worlds.

SPADs are externally mounted with no inter-connections to pumps required.



SPAD acting as flow switch, plumbing Flow Switch disconnected. Flow indicator to controller when pump is powered ON.



SPAD connected in series with flow switch. Flow indicator to controller when pump is powered ON and ACTUAL flow through plumbing. If either condition not satisfied, no Flow indicator to controller.

PART NO. DESCRIPTION

- 1269090** SPAD, 5V, with 20 ft of cable. (Models 140, 1520/30e, and 1575e)
- 1269103** SPAD, 24V, with 20 ft of cable. (Models 1512e and 2000 series)



SPAD is designed to work with Lakewood Controllers regulated power supplies and loads. Connection to other controllers or equipment may damage SPAD and VOID your warranty.