

Introducing the DaRo UV Systems Saphir+ System

In addition to the standard Saphir system, we would like to introduce the new Saphir+ system. The Saphir+ system offers additional telemetry.

The Saphir+ has additional lamp status information, an hour counter and a volt free contact facility for remote monitoring of lamp status, via a plug and socket (which is sealed and capped when not in use. Both capped and plugged configurations are rated to >IP65).

The Saphir+ Range has the following features:

- UV Lamp running Indicator
- UV Lamp status - three way indicator display showing the status of the system
- Switch to reset the internal hour counter
- Volt Free Contact output for remote display of lamp on indicator



UV Lamp Running Indicator

The control box has a blue "lamp running" indicator on the front panel display, which is on if and only if lamp is running correctly.

System status indicators

The table below shows the details of the system status indicators.

System Status	Power On	Lamp On	Lamp Status
System operating correctly, lamp less than 11 months old	Green	Blue	Green
System operating correctly, lamp between 11 and 12 months old	Green	Blue	Alternating Green & Red
Lamp still operating, but more than 12 months old	Green	Blue	Red
Lamp failed	Green	Off	Red

UV Lamp status Indicator

Lamp status indicator, Remote lamp on indicator via internal volt free contacts. The display gives a hidden indication of the age of the lamp. The "Lamp On" and "Lamp Status" indicators will blink off for a half second period once every minute. The number of blinks show how many year quarters (three months) have passed, before the "Lamp Status" indicator alternates from green to red in the twelfth month:

Age of Lamp	Number of blinks
One to three months (first quarter)	1
Four to six months (second quarter)	2
Seven to nine months (third quarter)	3
Ten to eleven months (fourth quarter)	4
Twelve months and above	Continuous Red

