

TROUBLESHOOTING GUIDE: UVS and UV/IRS Flame Detectors

Condition	Possible Cause	Possible Solution
Detector intermittently powers up	<ul style="list-style-type: none"> Faulty power supply or /wiring. Faulty electronics. 	<ul style="list-style-type: none"> Correct power supply or / wiring. Contact factory.
Detector does not power up (Green LED Off)	<ul style="list-style-type: none"> Faulty wiring/power supply. Voltage to detector outside specified range. Blown inline fuse. Water invasion of electronics. Faulty electronics. 	<ul style="list-style-type: none"> Correct wiring & power supply. Correct input voltage to detector. Replace inline fuse. Contact factory. Contact factory.
Unstable 4-20 mA signal	<ul style="list-style-type: none"> Unshielded cables used for wiring or improper shield connection. Water invasion of electronics. Faulty electronics. 	<ul style="list-style-type: none"> Use shielded cables for wiring or connect shielding properly. Contact factory. Contact factory.
No 4-20 mA Output Signal (0 mA)	<ul style="list-style-type: none"> Current loop wiring is open. Faulty electronics. 	<ul style="list-style-type: none"> Close 4-20 mA signal loop. Contact factory.
1 mA Fault	<ul style="list-style-type: none"> External Power supply failure. Detector's internal power supply failure. 	<ul style="list-style-type: none"> Correct or replace power supply. Contact factory.
2 mA Fault or Automatic and Manual VI Test Failure	<ul style="list-style-type: none"> Misaligned reflector. Dirty lens & /or reflector. Damaged or cracked lens. 	<ul style="list-style-type: none"> Position & align reflector. Clean lens & reflector / replace reflector / *calibrate. Contact factory.
6 mA without any fire present 8 mA (UVIRS Detector) without any fire present	<ul style="list-style-type: none"> Background UV radiation present (6mA). Background IR radiation present (8mA). Sensor(s) too sensitive. 	<ul style="list-style-type: none"> Remove source of UV radiation. Remove source of IR radiation. Adjust sensitivity & time delay.
16-20 mA without any fire present	<ul style="list-style-type: none"> Background UV present for UVS / both UV & IR radiation present for UVIRS. Sensor(s) too sensitive or time delay is too short. Damaged or faulty sensor(s). Faulty electronics. 	<ul style="list-style-type: none"> Remove source of UV & source of IR radiation. Adjust sensitivity & time delay. Contact factory. Contact factory.
Undesirable change in relay state	<ul style="list-style-type: none"> Voltage to detector outside specified range. Faulty electronics. 	<ul style="list-style-type: none"> Correct power supply voltage /correct wiring. Contact factory.

***Note: Contact factory for calibration procedures. ***