

11KV IPD EFLO AND HV TEST MODULES

Electrical Protection

Ampcontrol has received reports of a customer experiencing nuisance EFLO trips on new IPD 11kV EFLO equipment. Upon inspection of hardware and investigation, Ampcontrol was able to identify that the environmental conditions subjected to the hardware as the root cause of the nuisance tripping.

It was found that when exposed to temperature differentials in an environment with high humidity, excessive condensation had been generated on the electronics. The moisture on the electronics resulted in nuisance EFLO trips. Ampcontrol has since provided information to reduce the impact on existing hardware, provided an upgrade path and has also implemented manufacturing changes to eliminated the effect going forward as a result of identifying the root cause

ACTION

Existing Hardware:

There are two options for existing hardware to reduce the impact of condensation on internal electronics;

- Where possible it is recommended that existing hardware be returned to Ampcontrol for prevention work. Ampcontrol will be able to disassemble the equipment and apply protective coatings to the electronics to reduce the impact of moisture.
- Where the equipment cannot be returned, it is recommended for sites experiencing high humidity, to limit or control the exposure of equipment to significant temperature differentials. If transporting equipment allow additional time for hardware to acclimatise before being utilised to reduce the generation of condensation internally.

New Hardware:

- Ampcontrol has implemented additional manufacturing procedures to reduce the impact of condensation. As a result, all new hardware will have this additional treatment applied to the electronics.

Internal assessments have outlined that the fault condition does not pose a safety risk to the operators or site. Potential nuisance tripping however may cause undesired downtime and require additional rectification works to get equipment operational.

Not all sites will experience this issue, with severity also varying for each site or installation. Sites with significant temperature differentials and high humidity are at a higher risk of being exposed to the reported nuisance trips.

WHAT DO I NEED TO DO

Ampcontrol recommends that all modules be returned to CSM for prevention work where possible, understanding that this may not be necessary or achievable for all instances. Customers will need to manage the removal and impact on operations to best suit their site. Ampcontrol will work with customers to reduce the impact of equipment turnaround times where possible.

The serial numbers outlined in the table below, identify all modules that may be effected. It should be noted that all new products and repairs from the release of this notice (2nd September 2020) will have the additional protective coatings.

EFL Modules	
Serial Number	Serial Number
1910000351	1607000645
1910000350	1603001200
1904000105	1308000109
1901000804	1307001707
1811001842	1303145889
1811001841	1303145888
1811001840	1303145246
1806000524	1302144716
1806000523	1209138787
1803001055	0905076643
1801729815	0905076642
1801729814	0905076421
1707001136	0905076418
1612001109	0903074754
1607001590	0903074753
1607000930	0903073882
1607000644	0903073802

HV Test Modules	
Serial Number	Serial Number
1707001137	1303146290
1611000348	1303145877
1607001201	1303144993
1607001200	1303144992
1607000646	1302144717
1607000070	1209138786
1603001201	0905076641
1407000770	0905076639
1404000495	0905076419
1308000108	0903074052
1307001708	0903074051
1304146530	0903073883
1303146291	0903073803

IDENTIFICATION

Modules that have been returned for conformal coating can be identified by the addition of a Yellow sticker added to the right hand side of the modules main label.

FIND OUT MORE

For more information on this product, please contact Ampcontrol Customer Service on +61 1300 267 373 or customerservice@ampcontrolgroup.com or visit the Ampcontrol website: www.ampcontrolgroup.com

DISCLAIMER

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