Dear Partner,

Subject: Remote Notification of Ground Fault

Effective 11th July 2015, all solar PV installations will require an external earth fault alarm to be installed. (Refer to AS/NZS5033:2014 clause 3.4.3).

a. In systems where the PV array is operating at LV, an earth fault alarm system shall be installed which, on an earth fault causes an action to be initiated to correct the earth fault.

b. The alarm system is to continue repeating its operation at least at hourly intervals until the earth fault is corrected.

c. The alarm system may be an audible signal placed in an area operational staff or system owners will be ware or another form of fault communication, for example fax, email, SMS or similar shall be applied to inform to the system operator.

d. A set of operational instructions shall be provided to the system owner that includes the actions to take when the alarm operates.

The earth fault alarm system is external equipment fitted to the inverter by the installer; this may be an audible alarm, indicator light or a Conext ComBox for example.

The Conext equipment features a programmable relay output for this purpose, the installer must program the relay to change state on a ground fault condition and install an earth fault system compatible with the relay operation and rating to achieve the outcome.
The Conext RL, TL and CL grid tie inverters feature a programmable relay (N.C.) rated at 28VDC @ 3A in a normally closed state. Connecting voltages outside the rating of the relay will damage the relay contacts and void the inverter warranty.

The Conext SCC MPPT 80/600 device features a programmable changeover (N.O. / N.C.) relay rated at 60VDC, 30VAC @ 8A. Connecting voltages outside the rating of the relay will damage the relay contacts and void the inverter warranty.

The Conext SCC MPPT 60/150 requires an external ground fault detection kit be used with a remote indicator device.

The Conext SW and XW+ do not require earth fault indication circuit to be fitted.

**Conext ComBox**
The Conext ComBox meets the requirement for earth fault indication and may be used for this application and with any Conext equipment.

**Remote Light Indicator**
Schneider Electric manufactures a range of AC light indicators for this application.

**30N12**
12VAC neon indicator fits into any standard 30 mech plate, available in amber (AM), red (RD), Blue (BU) or Green (GR), suitable for the MPPT SCC 80/600
(Optional 20131VH mounting plate and 255/GY weatherproof enclosure)

AC & DC light indicators and buzzers and power supplies are available from a range or manufacturers and stockists.

For more information please contact our Customer Care Centre.

Regards

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