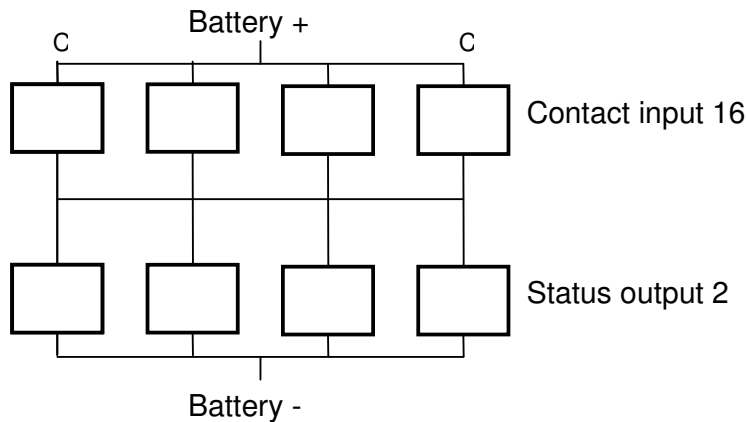


**TECHNICAL DATA SHEET - CROSS TRIGGERING OF SUB.NET SYSTEMS**

Sub.net has a maximum of 12 analogue channels which may be voltages, currents or transducer inputs. A series of pluggable input modules determine the type of inputs. For applications that require more channels any number of systems may be interconnected using a cross triggering scheme. This uses the triggered status output relay (2) and contact input 16 of each sub.net. The polarity of the connection is chosen to suit the other contact inputs.



To use this option system the **Cross triggering** on the **Triggers** configuration page of each system must be set to **On**. This ensures that :-

- Contact input 16 is configured as Open.
- The name for channel 16 is set to 'Cross trigger'.
- Triggering for contact 16 is set On.
- If the only trigger condition is contact 16 then status relay 2 is not enabled.

Additionally, the recording times for each sub.net should be set to the same values. If any of the Contact 16 settings is changed cross triggering will stop functioning.

If any of the interconnected systems detects an out of limits condition then it will trigger an event report. At the point the trigger is detected the triggered status relay is asserted and this will cause all the other systems to also generate event reports. If another system detects a trigger during the recording time then it will also assert its own triggered status relay and extend the recording times of all the systems if necessary. Since the contact 16 input is common to all the event reports it may be used to synchronise the data in each report.

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