How to switch-off the busbar measurement with an easYgen-3x00XT

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The article discusses the challenges associated with replacing old generator controls on old backup power genset applications by the easYgen-3000XT product line, which requires a dedicated busbar sensing. Service engineers often build a new dedicated busbar measurement point to replace the old controls, which resulted in additional cost and effort.

This article provides instructions on how to connect any easYgen3000XT control without a busbar measurement.

Please start by configuring a free output relay to meet the following Generator Circuit Breaker (GCB) conditions.
The relay will be responsible for switching two phases from generator sensing to easYgens bus bar measurement input.

Similarly, a second relay will switch two lines of mains voltage to the busbar measurement input.

It is important to ensure that both mains and generator voltage are not connected to the busbar measurement input at the same time. To avoid this, the 02.08 busbar measurement should be added in the easYgen output relay logic configuration.

The query pertains to whether the easYgen-3000XT is capable of monitoring whether the bus is live after the breaker has been closed, and if so, what is the delay time. The answer is affirmative - the easYgen has a plausibility check feature that works in conjunction with the operating range alarm. The time delay is configurable, allowing customization to suit specific requirements.