

VM600MK2 SIL

FAQ

December 2022

MEGGITT

TECHNICAL

VM600^{Mk2} SIL FAQ

Q1 - Is NO / NC configurable on SIL card Relays?

For the SIL card, the relays can only be configured as “normally energized”. This is to ensure the idle current principle (de-energized to trip). However, both NO/NC relay contacts are still available – meaning that the signalling to the upstream system can be done via “open” to signal or “close” to signal (two relays in series for the first case and in parallel for the second one).

Q2 - How about the number of Relay Terminals on SIL card? It is Half of Standard Card?

To achieve the highest safety (lowest probability of failure), two relays must be used for the same signal (in series or in parallel, depending on the type of signalling - “open” to signal or “close” to signal). For this reason, VS Protect only allows to configure the relays as pairs for SIL cards, i.e., 8 usable relays on the RLC16.

Q3 - If SIL card is used in unlocked mode, can it run as a normal card?

When the card is in unlocked mode, it will operate normally, however safety cannot be assured because some internal diagnostic functions will operate differently. This mode is only for maintenance and must not be used during normal operation. Configuration

Q4 - Can we mix SIL & STD cards in the same rack. SIL card for thrust bearing and STD card for relative vibration.

Yes, SIL and STD cards can be used in the same rack.

TECHNICAL

VM600^{Mk2} SIL FAQ

Q5 – Can MPC4MK2 SIL with condition monitoring process full frequency range (sensor frequency range) or it's limited to 400Hz as protection?

The condition monitoring capabilities of the SIL and STD cards are the same.

Note that the 400 Hz limit applies only to the high pass cut-off frequency, not to the low pass cut-off frequency. So, the frequency range upper limit is not limited to 400 Hz. This limitation is implemented to reduce the load in the safety processors, for safety reasons. The development team is evaluating the possibility to remove this limitation in the future.

Q6 – Sharing of tacho shall be allowed with SIL cards...How condition monitoring will work if tacho / phase are not shared (for condition monitoring enabled MPC4 card)

The SIL card can share the tacho to other cards in the same rack, however it cannot receive tacho signals from other cards, for safety reasons.

Q7 – Is there any restriction on MODBUS connectivity to CPU?

From a field bus point of view, the SIL card is seen exactly the same way as a STD card.