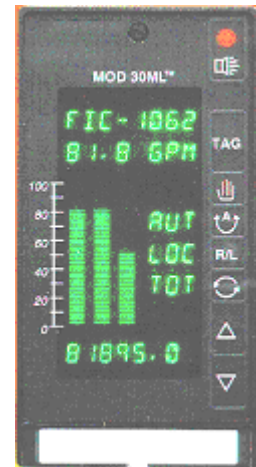


Faceplate Communication Error and no keyboard response in MOD 30ML

**Diagnostic Error codes DIF 4
and 5 are reported. Instrument
locks up with a shutdown fault.**



Problem Description:

This problem starts with diagnostic errors DIF 4 and 5. The keyboard might get locked up. The instrument eventually goes into a shutdown.

Applies to:

MOD 30ML configured from front face or Application Builder software or Visual Application Designer ViZapp Software.

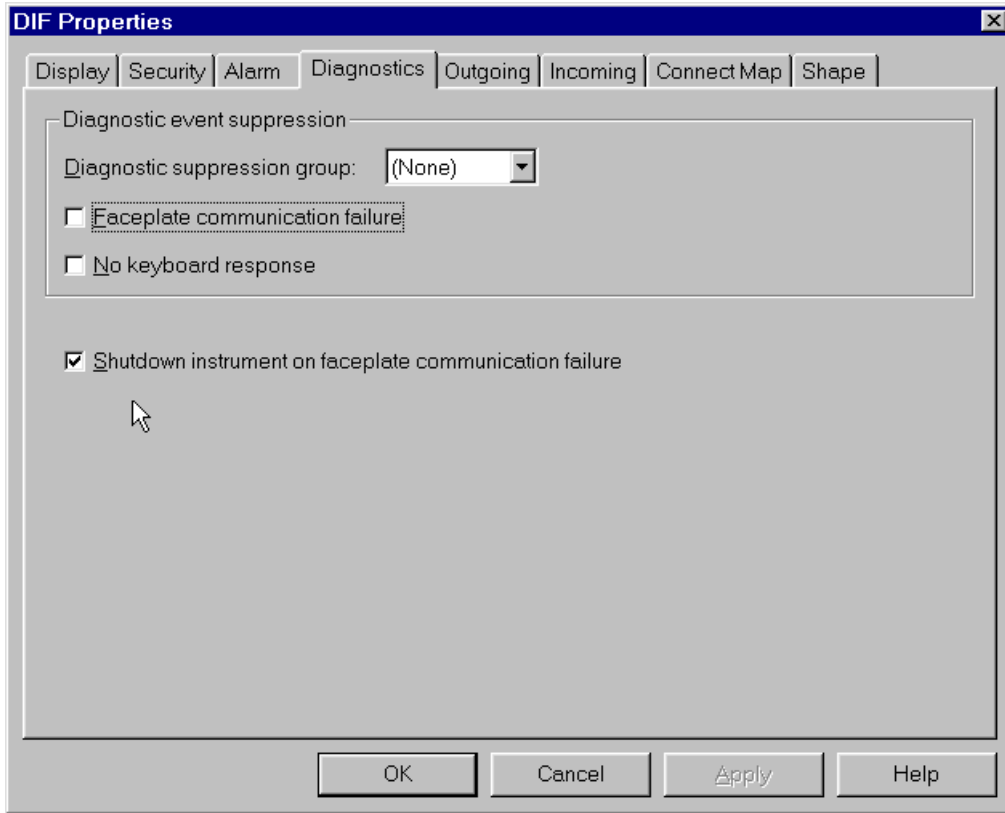
Explanation:

This problem may be due to noise or static discharges on the analog inputs. The built-in analog inputs use the same communication channel on the processor as the display, which explains the faceplate communication errors.

Solution:

Check whether the analog inputs are currently floating. To reduce electrical noise and eliminate static build-up, we recommend grounding these inputs.

The configuration default for a faceplate communication error is to force a shutdown. This default can be changed, so that the controller will continue to operate, as long as there are no other critical errors. The faceplate communication error would still be reported, allowing you to determine whether the added grounding corrected the problem. This is done in the DIF (Display Interface block) block's configuration as shown in the next figure:



Check the grounds on all the inputs and make sure they are properly grounded.

Reference:

Also read the Technote on Grounding.