

## SLC4075TechNote217\_BldgMngmtInterfaceUnintendedSwitchToAux

Rev 01/26/24

### “Aux/DDC” (formerly “Aux/BMS”) Inadvertently Switches to “Aux”

1. The typical cause is due to a transient power dropout.
2. Contributing causes are:
  - Improper chassis wiring where AC lines to the 24V power supply are routed with high-current contactor wiring.
  - General power quality issues due to conducted EMI from nearby pumps or other large switched loads.

### Resolution and Work-around Solutions

1. **Update the touchscreen firmware**
  - Update to the latest version, where the default power-on “Aux/DDC” is set to “DDC”.
  - Contact Selectronix for a free upgrade for your installation
2. **Install a backup SD card**
  - An SD card configured with the latest firmware provides backup protection from power transients that can cause a corruption of the stored firmware.
3. **Add SLC4032 Line Filter**
  - A single SLC4032 may be used to power all the 120 VAC Building Management Interface (BMI) components.
4. **For BMI systems which do not use the Auxiliary input to the master SLC4000**
  - *The SLC4060 Voltage Driver may be configured to provide the command signal to the master SLC4000 while in the “Aux” position. All functions of the BMI remain the same as in the “DDC” position, including the Shutdown function. BACnet or Modbus data and remote control and monitoring remain operational.*
  - **On the SLC4075 Touchscreen**
    - On the Voltage Driver page:
      - Set “Src Sel” to ‘5’ PID1 0-10V for a hot water configuration
      - Set “Src Sel” to ‘7’ PID2 0-10V for a steam or GPA1 configuration
    - **Connect the SLC4060 Voltage Driver to provide the analog SLC4000**
      - Using shielded wiring
        - Connect **SLC4060** TB19(+) and TB20(-) to **SLC4000 Master** TB2(+) and TB3(-), respectively.
        - Connect the shield to **SLC4060 TB20(-)**.
          - **Leave the shield at the SLC4000 insulated and unterminated.**
  - **Confirm operation of the installation in both “Aux” and “DDC”.**
5. **For Critical Installations:**
  - Add an Uninterruptible Power Supply (UPS) to the AC line providing power to the BMI components.
6. **For Touchscreen powered by the SLC4060 Aux 24 VDC Power Supply**
  - Use a separate 24VDC power supply.

For additional questions email [techsupport@selectronix.us](mailto:techsupport@selectronix.us).