

FAQ Note

FA 25 Error Code on 1250 Display

Problem: The instrument shows “FA 25” on the display and the analog output is not following the movement of the synchro transmitter.

Explanation: 1250's equipped with firmware rev. 1.0 and higher have a “Loss of Synchro Signal” failure mode. This mode can be programmed to automatically reset upon resumption of the synchro signal, or to wait for a manual keystroke to resume reading the synchro input signal. The manual reset mode is the default. Whenever there is “FA 25” on the display, the 1250 will lock all outputs (analog, serial, relays) to correspond to the last known good synchro position.

Troubleshooting:

1. If the 1250 has not been programmed to automatically reset upon resumption of the synchro signal, press the MENU button to reset the failure mode. If there is a good synchro signal on the input of the 1250, the display should return to a normal position reading, although this reading may be inaccurate due to possible position movement during the loss of the synchro signal.
2. If the display does not return to a position reading (FA 25 remains on the display) there is a failure with the synchro transmitter or the wiring from the synchro to the 1250.
3. Verify that there is power to the synchro transmitter. If the transmitter is a model 1292KS, verify that the fuse F1 is not blown. F1 is located on the circuit board near the power terminals and looks like a green ¼ watt resistor.
4. If there is power to the synchro, verify that there is an output signal from the synchro transmitter. Measure the AC voltage present between the S1-S2, S2-S3, and S3-S1 terminals. This voltage should be between 10VAC and 90VAC on at least two pairs of terminals. If the voltage is less than 5 volts between all pairs of terminals, the synchro transmitter is defective and must be replaced.
5. If proper output voltage is measured at the synchro transmitter, measure the voltages at the input terminals A, B, & C on the 1250. The voltages should measure the same at the 1250 as measured at the synchro transmitter.
6. If the voltage measured at the 1250 is significantly less than measured at the synchro transmitter, turn off power to the 1250 and synchro. Disconnect all wiring between the 1250 and the synchro. Measure the continuity of between each wire for short circuits and verify that each wire is not open circuited. Make any repairs to wiring as needed.
7. To program the 1250 for Automatic Reset of the FA 25 error code, enter the programming menu and go to OP 53. Enter this parameter and change the setting to “On”.