Input – Output Signal Verification

The Control Display Unit (CDU) function #981 may be used to directly read and track the status of logic input and output signals at DSD 412 drive terminals. This is an easy way to verify the integrity of input and output logic signals to the drive. Refer to specific connection diagrams for your application to confirm the definition of how each signal is being used. The I/O indicator technique as described below will work regardless of whether or not the particular terminals and signals are used by internal software logic or actually wired into your application. Function #981 does not work with the Portable Control display Unit.

Here's how to use this valuable troubleshooting tool:

1. Press the Up   ▼   or Down   ▲   keys and go to F#981.

2. Press the DATA FCTN KEY. The green light should turn ON to indicate that data is being displayed.

3. Segments on the local Control Display Unit will light up to indicate active input and output logic actions. Vertical segments represent input signals and horizontal segments represent output signals as identified below. For more information, see appropriate Figure depending on whether the drive is being run serially or analog.
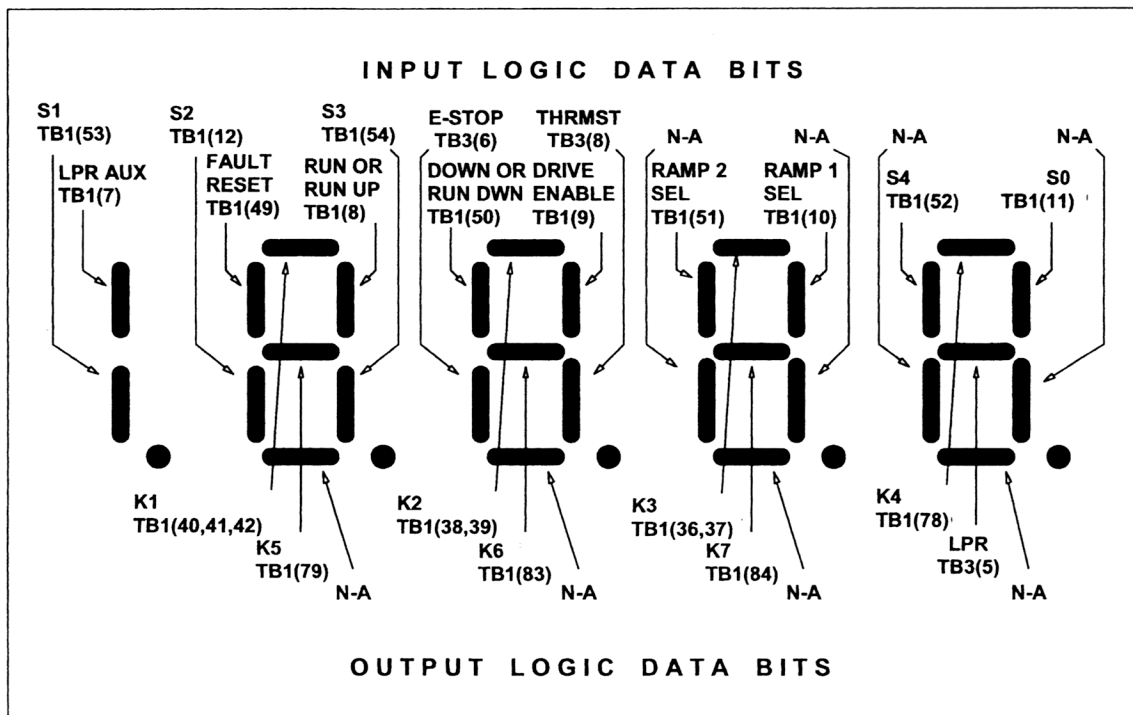

Figure 23: I/O Analog Monitor Function