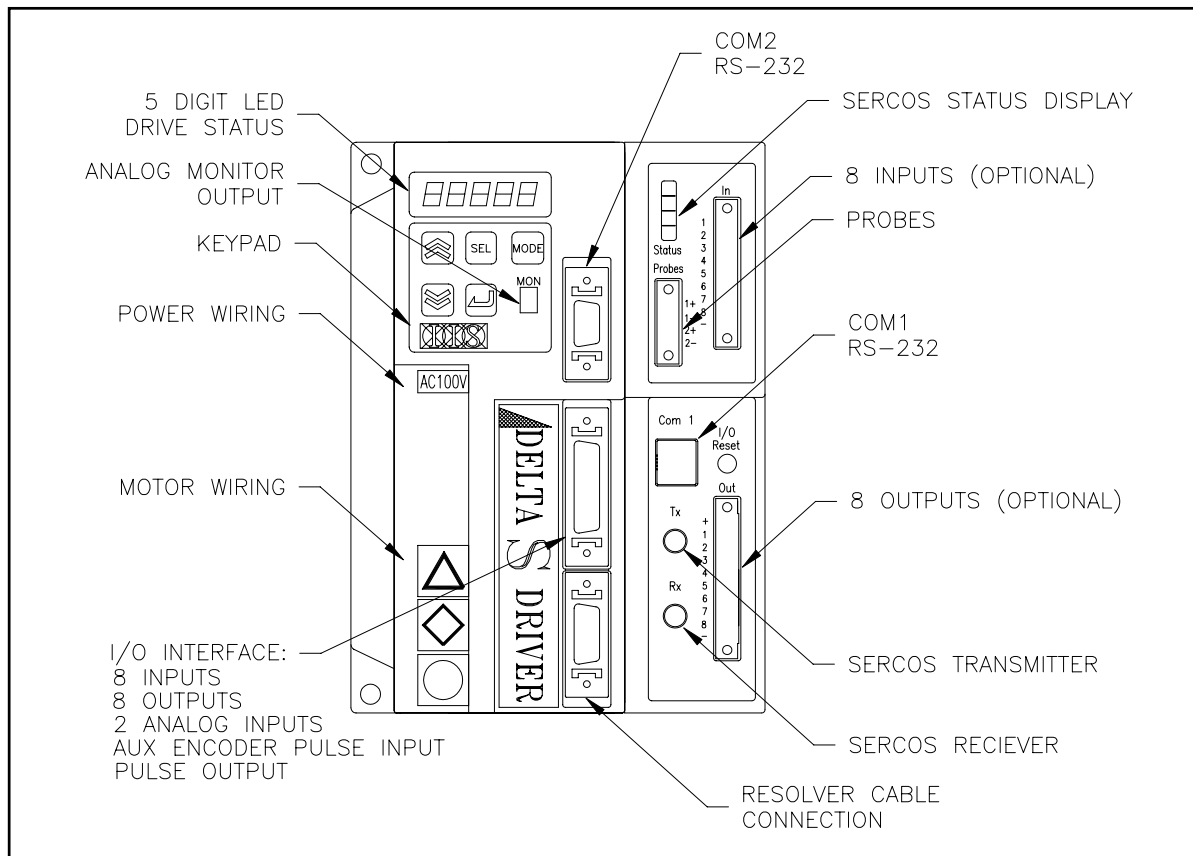


## SECTION 2 - DESCRIPTION

The Delta S is a SERCOS Interface compatible servo drive. When interfaced to a SERCOS Master controller, access can be made to a wide variety of hardware features along with the SERCOS standard motion configurations.

The external connections that exist on the Delta S are shown in **Figure 2.1**, and consist of 2 RS-232 ports, 8 digital inputs and 8 digital outputs standard, 2 analog inputs, SERCOS Fiber Optic Transmitter and Receiver, as well as motor, resolver, and power connections. The Delta drive also has an analog monitor output that is capable of representing either speed or torque as a function of voltage relative to +/- 3 vdc.



**Figure 2.1 - Delta S Layout**

## 2.1 COMPONENTS

### 2.1.1 STATUS INDICATORS

1. Drive Status Display - This is a 5-digit seven segment display which indicates the current status of the Delta driver. A fault on the drive would be represented by AL - ## which indicates an alarm with an associated two digit number. These alarm codes and their descriptions can be found in [Section 12 - Alarm & Status Codes](#).
2. SERCOS Status Display- This 4 LED array provides status information on the current state of the SERCOS Interface. For further information on this display, see [Section 12 - Alarm & Status Codes](#) in this manual.

### 2.1.2 CONNECTORS

1. Com 1 - This 6-pin RJ-11 connector is an RS-232 serial communication port. This port is utilized to update the firmware in the SERCOS Adapter.
2. Com 2 - This 14-pin connector is an RS-232 serial communication port. With PC software this port can be used to download, upload, or change drive parameters, drive diagnostics, and PC oscilloscope functions.
3. I/O Interface- This connector provides access to the onboard I/O, including 8 optically isolated inputs, 8 optically isolated outputs, 2 analog inputs, auxiliary encoder pulse input and pulse output. IIS offers two cable options to this connector; there is the C-719YYY cable with ferruled ends or the C-716006 cable that terminates at the DINT-300, which provides terminal blocks for I/O wiring.
4. SERCOS Transmitter/Receiver- These fiber optic ports allow the drive to be interfaced to a SERCOS Master Controller.
5. Probes- High Speed Optically Isolate inputs that can be configured to trap the motor feedback position.
6. Resolver Cable Connector - This is a 20-pin mini D connector used for resolver feedback from the motor to the drive.
7. Motor/Power wiring terminals - These are terminal blocks used to wire the incoming AC line voltage as well as the motor cable.
8. Monitor Output - This is a connector that provides access to an analog output signal. The signal is can be defined as a conversion of torque or speed.