



HIGH SPEED DATA LOADERS

Airborne Data Loader and Portable Data Loader



■ Teledyne's High Speed Data Loaders provide convenient digital data interchange between airborne and ground-based computers via standard 3.5 inch HD (1.44MB) PC-compatible media. Serving as a removable mass storage device used by multiple airborne computers, an ADL or PDL can load navigation databases and operational flight programs as well as perform multivolume data recording and blank disk formatting.

■ Throughput of airborne computer interface has been optimized to provide the highest possible performance via dual speed ARINC 429 data busses (8-in, 4-out) and ARINC 702 standard open/ground discretes (4-in, 4-out). The second disk drive in the PDL permits a 2-disk 1M Word navigation database to be loaded in a single operation, eliminating disk change delays.

■ The Loaders accept either 28VDC or 115VAC, 400Hz aircraft power. All connector pins have transient protection built-in.

■ Effectiveness of operator interaction is enhanced by the 16 character alphanumeric display which provides concise messages to aid in determining load progress and to simplify troubleshooting. Detailed error reporting and diagnostics is also available via the EIA232/422 serial console port.

System Validation:

System validation tests are performed at the total system level using the actual airborne computer LRU equipment and interfaces as provided by their respective system test stations. Every load configuration of an LRU is tested on each installation.

Validation tests include the following avionic system load configurations:

- Fight Management Systems (FMS)
- Integrated Display System (IDS)
- Aircraft Condition Monitoring System (ACMS)
- Advanced Cabin Entertainment and Service System (ACCESS)
- Central Management System (CMS)
- Automatic Flight System (AFS)
- Centralized Fault Display System (CFDS)
- Aircraft System Controller (ASC)
- Flight Management Computer System (FMCS)
- Electronic Display System (EDS)
- Aircraft Data Acquisition System (ADAS)

Specifications of High Speed Data Loaders:

