TELEDYNE CONTROLS
Everywhere**you**look™

PMAT 2000®

Portable Maintenance Access Terminal 2000

DIAGNOSTICS

DOCUMENTATION

LoadStar and LSE

eADL

DATA LOADING

The Complete Electronic Data Loading Solution for the Entire Fleet

Teledyne's Portable Maintenance Access Terminal 2000 (PMAT 2000®) is a rugged flightline maintenance support tool that performs the following functions:

- Loads software parts into avionics systems, EFBs, navigation databases, and safety systems
- Provides configuration control for all software parts in an airline's fleet
- Provides access to onboard maintenance systems
- Collects and returns data from the aircraft to the operator

Easier Data Distribution and Loading
The PMAT 2000 solution accepts software parts directly from floppy disks, USB memory sticks and CD/DVD ROMs, or electronically from Teledyne's LoadStar® Server Enterprise (LSE) network distribution program. The PMAT 2000 system supports a variety of data loading protocols, including ARINC 615 and ARINC 615A. The system also maintains a report of all data loading activities, which are identified by aircraft tail and user.

Software Configuration Control with LoadStar
The PMAT 2000 solution is delivered with the LoadStar application, which provides configuration control of software parts by aircraft types and tail numbers. The LoadStar program guides the operator to the proper software parts, only showing those available for the particular aircraft being loaded.

Maintenance Platform for Third Party Applications
The PMAT 2000 provides a common maintenance platform to support maintenance activities for a wide range of avionics systems. It supports all loadable GE engine FADEC across commercial and military aircraft, as well as a number of third party applications used for various maintenance activities, such as B767 bleed air valve calibration, Embraer Primus Epic data loading, B777 MTF, EFB loading and Honeywell EGPWS data loading.

A Complete and Scalable Solution
The PMAT 2000 system is delivered as a complete tool kit that includes all the hardware, software, cables and accessories necessary to support hundreds of avionics systems. Based on the OEM or customer requirements, the PMAT kits can be customized and expanded as needed.

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KEY BENEFITS

- Configuration control of Software Parts
- Data loads from floppy disk, USB, *CD/DVD ROM or from the PMAT 2000® hard drive to loadable aircraft equipment; logs are returned through LSE
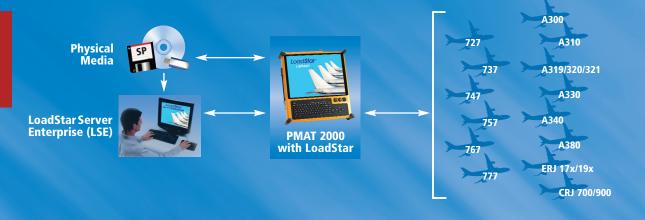- High-speed and high-volume data loading

- Data loading hardware and software solution
- Compatible with LoadStar and LoadStar Server Enterprise (LSE) software
- Supports the entire fleet
- Cost effective portable diagnostic tool

KEY FEATURES

- ARINC 615 loading over ARINC 429
- ARINC 615A loading over Ethernet/CAN/AFDX
- Session logs
- GE Engine FADEC/EEC software reprogramming
  - Simple test port connection to the EEC
  - Supports CFM56, CF34, CF6-80C, GE-90, GEnX, T700, CT-7, F404/414, GP7200
- Embraer Primus EPIC avionics loading
- Digital documentation platform

- B757/767 MCDP
- Compatible with Teledyne Controls' PDL-615/MSD and eADL
- Supports EFB loading
- B767 bleed air valve diagnostics
- B777 AIMS programming support
- Supports Airbus ARINC 615 and ARINC 615A loading
- Honeywell EGPWS data loading
- Designed for the flightline environment

*Delivered software applications and features depend upon the software and hardware configuration purchased

PMAT 2000™ Interface Block Diagram

Physical Media

LoadStar Server Enterprise (LSE)

PMAT 2000 with LoadStar

A300
727   A310
737   A319/320/321
747   A330
757   A340
767   A380
777   ERJ 17x/19x
CRJ 700/900

CHARACTERISTICS

- **Display:** 14.1" high-resolution (1024 x 768), sunlight readable and anti-reflective
- **Batteries:** Dual Lithium-ion, internally charged standard battery packs, 5+ hours of battery life with hot swap capability allows battery replacement during operation or loading without reboot
- **Data I/O:** Floppy Drive (1), 10/100 Base-T Ethernet (2), ARINC 429 (2 TX, 4 RX), USB 2.0 (2), RS 232/4222 (5), CAN (1)
- **Optional Data I/O:** MIL-STD 1553, AFDX, external *CD/DVD ROM, equipment and aircraft cabling
- **PCMCIA Capability:** Dual type III slots: 1 external, 1 internal built-in
- **Operating System:** Microsoft Windows XP
- **Size & Weight:** 13.5" H x 13" W x 2.5" D / 342 mm x 330 mm x 63.5 mm, 10 lbs / 4.5 kg
- **Warranty:** 2 years standard with extended warranty options, CE Approved

LoadStar CONFIGURATION MANAGEMENT SOFTWARE FEATURES

- Storage, transfer, verification and deletion of software library files
- Complete transfer and verification control of the B777 PMAT Mass Storage Device and the PDL-615/MSD
- Distributes Software Parts to the PMAT 2000 system through a network interface via LSE