Product Information

Mobile Data Terminal MDT

The Interactive Driver Interface

Trapeze's Mobile Data Terminal (MDT) provides transit agencies with real-time interaction between the vehicle fleet and dispatch center for safer and more efficient operations. MDTs also help ensure control and accuracy with an onboard information and communication system.

The Business Case for MDT
Improving Driver Communication

Quick and clear communication between dispatch and operations helps improve efficiency. Real-time updates and messaging to and from the vehicle means no more waiting and wondering. A clear color screen is designed to work in day and night situations.

An Audio prompt lets operators know when a message is available. No need for extensive and time consuming text entry—one touch responses allow operators to concentrate on the route, not the keyboard.

Improving On-time Performance

The driver terminal shows route performance to the driver. The driver can adjust his waiting times and knows exactly when to leave in order to meet adherence targets. Map navigation and turn-by-turn directions help experienced and new drivers navigate their Fixed and Paratransit routes with confidence and efficiency.

Single Log-on

Designed for a 'single log-on,' the MDT allows drivers to not only log-on to the CAD AVL system, but also all integrated ancillary equipment onboard the vehicle. Rather than using a traditional key pad, an optional swipe card is available for drivers to utilize during system log-on.

Durable and functional, the MDT is specifically designed for vibration, climatic and harsh operating conditions that a transit vehicle may endure.

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Intelligent Transportation Systems

www.trapezegroup.com

Trapeze™

Mobile Data Terminal MDT

KEY TECHNICAL CHARACTERISTICS

Dimensions / Weight
- 7.99" L x 6.06" W x 1.5" H / 1.765 Ibs.

Screen Size
- QVGA: 6.8" diagonal / 4:3 ratio / 5.44" x 4.07" active area, or
- VGA: 6.4" diagonal / 4:3 ratio / 5.12" x 3.84" active area

Display / Type
- TFT-LCD backlit color QVGA / 320 x 240 pixels, or VGA / 640 x 480
- Available in full color or monochromatic
- Visible in direct sunlight

Power Supply Voltage
- EU 17-32V, US 8-32V unregulated
- Over voltage: 36V / 1s; 100V / 1ms

Interfaces
- Digital Video Interface (DVI) for video signals (standard for TV, computer, etc.)
- RS232 interface for keyboard signals

Keyboard
- Backlit illumination
- 10 Programmable keys
- 12-Key alphanumeric keypad including (#) and (*) keys
- 4 Arrow keys in joystick configuration for navigation
- Dedicated keys for Emergency, RTT and PRT functions
- Dedicated keys for brightness and contrast control

Beeper (External)
- Unique audible beeps on incoming requests identify different functions

Reliability MDT
- Rated for minimum of 6,000 operating hours per year / 12 to 15 years

Keys
- Minimum two million (2,000,000) key presses

Backlighting
- Cold Cathode Fluorescent Lamp (CCFL) rated for minimum of 10,000 hours

Temperature Tolerances
- Normal LCD operating range: 0-50° Celsius
- Acceptable LCD operating range: -20-70° Celsius (restricted readability but no destruction)
- Maximum relative air humidity: 95%
- No condensation

Environmental Standards
- Protection standard: IP54 (front) / IP52 (back)
- US standard: MIL_Std-810, SAE1 J1455
- Hardware standard: HWR001