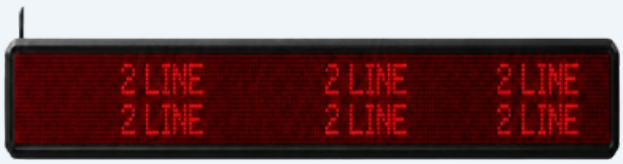
Product Specification Sheet

182-48RB

Wireless Reader-Board 48-Inch



182-48RB
Wireless Reader-Board 48-Inch

The Wireless Reader-Board 48-Inch (Model: 182-48RB) is a high-visibility, commercial-grade digital display engineered for healthcare, institutional, and emergency communication environments. Designed to interface seamlessly with advanced nurse call networks and central monitoring systems, this large-format wireless display delivers real-time textual alerts, critical patient updates, and staff notifications.

By eliminating the need for dedicated data cabling arrays, the 182-48RB streamlines facility installation while providing crystal-clear legibility from extended distances, making it ideal for busy corridors, staff lounges, and centralized nurse stations.

Architects' and Engineers' Specifications

The digital corridor notification system shall utilize the Wireless Reader-Board 48-Inch (Model: 182-48RB) or an approved technical equivalent. The unit shall feature a 48-inch nominal width chassis with a high-intensity, industrial-grade alphanumeric LED display matrix visible from a minimum distance of 150 feet under standard institutional lighting.

The display shall receive alphanumeric message data wirelessly via an integrated RF transceiver module, eliminating the requirement for dedicated hardwired RS-485 or Category-data transmission line routing to the individual station. The unit shall feature a programmable internal audio sounder to audibly alert staff of incoming priority calls.

The housing shall be constructed of heavy-duty extruded aluminum with a cleanable, protective faceplate suitable for hospital-grade disinfectants. The unit must incorporate non-volatile memory to prevent loss of configuration programming during power failure events and shall support supervised polling to report communication loss back to the master station middleware.

Specifications

- **Overall Length:** 48 inches (approx. 1219 mm)
- **Display Technology:** High-intensity LED Matrix
- **Viewing Distance:** Rated for clear legibility up to 150 feet
- **Character Height:** 2.0 inches to 4.0 inches (dependent on character font/line layout)
- **Wireless Frequency:** Commercial ISM Band (Model variant dependent: 433 MHz / 900 MHz Spread Spectrum)
- **Input Voltage:** 120 VAC, 60 Hz standard (or 24 VDC secondary input option)

Features

• High-Visibility LED Array: Features a premium, high-contrast matrix display capable of rendering bright alphanumeric characters legible in both high-ambient and low-light clinical environments.
• Wireless Data Integration: Integrated RF transceiver module ensures stable data reception from the central wireless transmitter or middleware engine without requiring dedicated network drops.
• Dynamic Message Prioritization: Automatically parses and flashes high-priority events (e.g., Code Blue, Staff Emergency) over routine notifications.
• Flexible Mounting Configuration: Includes standardized chassis hardware optimized for ceiling-hung, wall-flush, or angled flag mounting.
• Industrial-Grade Housing: Encased in a rugged, easy-to-sanitize aluminum enclosure designed to withstand demanding institutional cleaning protocols.
• Non-Volatile Memory: Retains internal device configurations, network IDs, and localized display parameters during abrupt facility power interruptions.

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More Features

• Adjustable Audio Alerter: Built-in piezo buzzer with software-controlled volume and cadence settings to audibly prompt staff when a new critical message arrives.

• Automatic Brightness Dimming: Integrated ambient light sensors automatically scale the LED intensity down during night shifts to minimize patient disruption while maintaining daytime readability.
• Real-Time Clock Sync: Synchronizes automatically with the facility network master clock to alternate between active event messaging and a highly accurate time-of-day display.

• Supervised Link Status: Constant background monitoring triggers a localized system fault or visual heartbeat signal if wireless connectivity to the central transmitters is broken.

Compliance and Certification

• FCC Status: Certified under FCC Part 15 Class A for intentional and unintentional radiators, ensuring low-interference operation alongside sensitive medical hardware.

• UL Status: Listed to UL 1069 (Hospital Signaling and Nurse Call Equipment) and/or UL 60950-1 / UL 62368-1 for safety of information and communication technology equipment.

• RoHS Status: Fully compliant with RoHS guidelines, restricting the use of hazardous substances like lead, mercury, and cadmium in all internal circuitry and soldering processes.

Equipment Options

• Dual-Sided Configuration (-DS): Back-to-back dual LED matrix layout for bidirectional viewing in double-corridor intersections.

• PoE Power Alternative (-POE): Internal module conversion to allow Power over Ethernet injection where localized AC outlets are unavailable.

• Extended Range Antenna Kit (-ER): External high-gain antenna assembly for installations spanning complex architectural layouts or high-interference zones.

• Custom Enclosure Finishes: Antimicrobial powder-coated color options (Medical White, Industrial Gray, or Matte Black) to match specific facility aesthetics.

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