



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.

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 transmitter is broken.

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.

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.

Standard & Advanced 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.

Product Specifications

Specification Parameter	Detail / Technical Value
Model Number	182-48RB
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)

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.