

## Excel 15B W7760B Building Manager

### SPECIFICATION DATA



### APPLICATION

The Excel 15 W7760B Building Manager is a Light Commercial Building Solution (LCBS) web-based operator interface (network server) and LONWORKS®/E Bus supervisory device. As an operator interface, it connects to the Internet, local area network (LAN), or wide area network (WAN) providing multi-user access to web pages for Building Manager configuration, LCBS monitoring and command functions. As a building manager, it uses LONWORKS®/E Bus to provide network wide alarm handling, scheduling, Demand Limit Control (DLC) and trend logging for NX VFD, application specific Excel 10 and Excel 15 W7760C Plant controllers.

W7760B is configured using built-in utilities. It queries the LONWORKS® network to determine the devices installed and self-configures display pages for each supported device.

W7760B is a network server/appliance equipped with a hard drive. The use of a hard drive greatly expands alarm handling, scheduling, and logging capabilities when compared to EPROM/RAM based control devices.

A Building Engineer can use the W7760B as an interface for remote commissioning of NX VFD, Excel 10 and Excel 15 controllers, including the W7760B, over a WAN via LONSPEC™. Later, the Building Engineer can perform LONSPEC™ database backup and restore operations (on the W7760B) for future reference or modification.

### FEATURES

- Internet Network appliance with hard drive.
- Supports up to 120 controllers—a combination of NX VFD, Excel 10 and Excel 15 W7760C controllers.
- Self-discovery of devices (nodes) on the LONWORKS® network.
- Automatically creates a Device Status List (DSL).
- Automatically creates display pages for each supported NX VFD, Excel 10 and Excel 15 W7760C controller.
- Automatically configures Trends Log for supported NX VFD, Excel 10 and Excel 15 W7760C controller.
- Manages a maximum of 100 user configured Trend Logs.
- Schedules Excel 10 devices and Excel 15 W7760C objects.
- Reports and logs alarm data.
- E-mail reports of alarm data.
- Display of NX VFD, Excel 10 and Excel 15 W7760C data, allows modification of setpoints and initiate/cancel Occupied bypass on Excel 10 and Excel 15 W7760C devices.
- Real Time Clock (RTC) for time stamping with time synchronization.
- Multi-level user access.
- Manages the rate of power consumption for a building using DLC.
- Off-line configuration of most Building management functions via LONSPEC™.
- Device commissioning through the Excel 15B via LONSPEC™.
- LONSPEC™ database storage and retrieval.

## BUILDING MANAGEMENT FEATURES SUPPORTED

### Supported Devices

Excel 15 W7760B Building Manager recognizes and lists all LONMARK® compliant devices (nodes) on the LONWORKS® network. Full support is restricted to the devices listed:

- Excel 10 W7750A,B,C Constant Volume Air Handling Unit Controllers
- Excel 10 W7751B,D,F Variable Air Volume Terminal Unit Controllers
- Excel 10 W7751H,J Smart Actuators
- Excel 10 W7752D,E,F,G,J, W7754K Fan Coil Controller
- Excel 10 W7753A Unit Ventilator Controller
- Excel 10 W7761A Remote Input/Output Device
- Excel 10 W7762A,B Hydronic Controller
- Excel 10 W7763C,D,E Chilled Ceiling Controller
- Excel 15 W7760C Plant Manager
- T7350 Communicating sub-base for T7350
- NX VFD (NX Variable Frequency Drive)

### Real-Time Clock

- Calendar includes leap years
- Automatic daylight savings adjustment.
- Day of Week
- Day of Month
- Internet time synchronization
- Acts as Time master; synchronizes time on Q7300 and T7350.

**Import of Graphic:** Supports import of user-created graphics in either GIF or JPG format.

### Remote Equipment Monitoring and Control

- Internet, Local Area Network (LAN) and/or Wide Area Network (WAN), and access to the supported control devices
- Requires no software monitoring tool in the local workstation
- E-mail notification on critical alarms

### Time-of-Day Schedules

- Maximum of 120 controllers that includes Excel 10, Excel 15 W7760C, T7350, and T/Q7300s
- 20 global schedules:
  - master - primary schedule
  - follower - typically used for holiday and exception scheduling
  - shifted - typically used to offset from a primary schedule
- 20 weekly schedules:
  - 7 weekdays
  - 3 special “days” used with holiday scheduling
- 50 Holiday and exception schedules.
- 50 Temporary Schedules - override of regular schedule

### Multi-level User Access

- A maximum of 100 users can be assigned
- User access level determines user capability
- Access levels:
  1. System Administrator
  2. Building Engineer

3. Assistant Building Engineer
4. Contractor
5. Chief Operator
6. Assistant Operator
7. Tenant

### Graphical Display of Devices

- View and change setpoints
- View data points
- Initiate occupied bypass
- View and change time on T/Q7300 and T7350

**Create 20 Special Displays:** Allows the selection of an image as a background and the placement of up to 20 databoxes that are configured to read and display points' status.

### Alarm Management

- Device alarms: Maximum of 120 controllers that includes NX VFD, Excel 10, Excel 15 W7760C, T7350, and T/Q7300
- 500 user defined alarms points - analog, digital, and SNVT alarm points
- 5,000 alarm records in the alarm database
- Alarm prioritization
- E-mail alarm notification:
  - Multiple alarm e-mail addresses segregated by priority

### Demand Limit Control

- Support maximum of 50 different load assignments across 120 objects.
- Configure and view DLC Load settings
- Enable DLC overrides on objects
- View DLC service status
- View energy consumption (KW value), energy (kW) setpoint and energy (kW) peak through DLC graph

### Trending and Log Files

- A maximum of 120 default trend logs
  - automatically generated for each NX VFD, Excel 10, Excel 15 W7760C, T7350 and T/Q7300 on the network.
  - 5,000 samples (records) per device trend log
- A maximum of 100 user defined trend logs.
  - Up to 10 data points per log
  - Up to 10,000 samples (records) per user trend log

### Setup

- Integrated utility for Ethernet setup
- Self-discovery for LONWORKS® network devices
  - Automatic graphic/text page creation for all supported devices
- Integrated utility for:
  - assigning users
  - creating user defined alarm points
  - configuring user defined trend logs
  - adding graphic/text pages
  - creating and assigning global schedules to different controllers on the Lon network.

## SPECIFICATIONS

### Input/Output:

9 pin D Sub-9 male serial port connection.  
 RJ 45 10/100 LAN Ethernet port connection.  
 PCI EasyLon card (FTT-10A, MIP firmware, PCI Model P.P10204) from Gesytec with 2 pin terminal block for LONWORKS® network connection.

### Communications:

W7760B Building Manager uses a Free Topology Transceiver (FTT) to support a polarity-insensitive free topology wiring scheme for star, loop, and/or bus wiring.  
 Each W7760B Building Manager can support up to 120 Excel 10 and Excel 15C controllers, allowing alarm capabilities.

**Power Supply Requirements:**An external AC Adapter, 12 Vdc, 3A to plug into standard USA grounded electrical outlet (Input: 100-240V, 50/60Hz, 1A; Output: 12VDC, 3A).

**Internet Time Synchronization:**Supports the automatic time synchronization with an Internet site of your choice.

### Environmental Ratings:

Operating Temperature: 41° to 95°F (5° to 35°C).  
 Shipping Temperature: -4° to 149°F (-20° to 65°C).  
 Relative Humidity: 10% to 85% noncondensing.

**Mounting:**Mount the Excel 15 W7760B Building Manager in a computer/network server room. Table/shelf mounting means the Excel 15B sits on a table or shelf. It is not strapped down. The Excel 15B can also be secured to a vertical surface by means of screws through “ear holes”.

**Dimensions (H/W/D):**Excel 15 W7760B Building Manager unit: Max: 3 x 9-3/4 x 10 in. (7.6 x 24.8 x 25.4 cm).

### Approvals:

UL E143709 compliance  
 cUL Level 3 compliance  
 FCC, Class B (DOC) compliance  
 Complies CE EN55022 (1999), Class B. EN55024 (1999).  
 EN61000-3-2 (1995) = A14 (2000). EN61000-3-3 (1995)

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