

# Lingo<sup>®</sup> XE Executive Module



## *Multi-site Retail*

### *Features*

Integrated or remote color touchscreen

Embedded Web Server  
(for system access via a Web browser)

USB Client connectivity

Expanded data logs storage system  
(128 logs, 16 points each, and 80 days  
of storage)

Advanced metering capabilities  
(MODBUS<sup>®</sup> protocol; Meters: PM800  
Series; Veris H8238, H8346, and H8437;  
and C-H IQ200 [INCOM<sup>™</sup>])

Ethernet<sup>®</sup> 10/100Base-T connectivity  
(includes DHCP capabilities)

Internal oscilloscope for analog  
signal display

56K modem

Lingo<sup>®</sup> XE offers the flexibility needed to control and monitor large buildings at multiple sites. Its processing power, multiple network capabilities, integral Web server, expanded log storage system, and optional touchscreen make it easier than ever for facility managers to control temperatures, indoor and outdoor lighting, electrical demand and consumption, and more. Lingo XE, a component of Novar's Logic One<sup>®</sup> automated building control system, is easy to install and commission. It can be incorporated into new building plans or turnkey installations for existing locations.

### Physical Characteristics

**Height:** 19.25 inches  
**Width:** 13.25 inches  
**Depth:** 2.5 inches  
**Weight:** 6 lb (all-aluminum enclosure)  
**Mounting:** Four slotted mounting holes on base with enclosed removable terminal strip blocks for input/output and power connections and knockouts for 1/2-inch and 3/4-inch conduit fittings.

### Operating Environment

#### Lingo XE with Touchscreen

**Operating Temperature:** 32° to 122°F (0° to 50°C); 0–80% RH\*  
**Storage:** –4° to 158°F (–20° to 70°C); 0–90% RH\*

#### Lingo XE without Touchscreen

**Operating Temperature:** 32° to 140°F (0° to 60°C); 0–80% RH\*  
**Storage:** –40° to 158°F (–40° to 70°C); 0–90% RH\*

\* noncondensing

### Electrical

**Voltage:** 24 VAC (Class 2)  
**Consumption:** 40 VA  
**Analog Inputs:** 4 to 20 mA  
**Digital Inputs:** 5 volts sourced, 20mA, contact closure only  
**Output (Fault):** 24 VAC or VDC, 1 ampere, Class 2

### Special Circuits/Diagnostics

**Low Voltage Detect:** Senses proper operating voltage

**Temperature Sensor Monitor:** Verifies outdoor temperature sensor operation

**Memory Test:** Verifies memory size and functionality

**Watch Dog:** Monitors and ensures Lingo timing and operation

**Surge Suppression:** All inputs/outputs protected against the continuous application of 24-VAC and lightning-induced surges

**Real-Time Clock:** Quartz crystal provides day, month, date, years, hours, minutes, and seconds; automatic synchronization

**Built-in Battery Backup:** Five years full memory and clock.

### Novar Network Communications

**Method:** RS-485  
**Cable (network):** Two-wire, shielded cable, Belden 8761 or equivalent  
**Ethernet:** Up to 32 Lingos  
**Module:** Up to 128 modules per Lingo

### Local Area Network (LAN) Communications

**Method:** Ethernet 10/100Base-T RJ45 interface jack

### Remote Communications

**Network:** Ethernet 10/100Base-T LAN/WAN, RJ45 interface jack

**Phone line:** Industry-standard modem, RJ11 interface jack

### Other Communications

USB for use with a local personal computer  
MODBUS Advanced Metering: PM 800 Series  
Veris H8238  
Veris H8436  
Veris H8437  
C-H IQ200 (INCOM™)

### Local Control

**Display:** Integral touchscreen display, 1/4 VGA (320 × 240) resolution

### Dedicated Inputs/Outputs (Global)

**Inputs:** Outdoor light sensor, outdoor temperature sensor, humidity, demand pulse, phase loss sensor, emergency status

**Output:** System fault output

### Regulatory Compliance

**Listed device:** CUL/UL E90949  
**FCC:** Part 15, Class A  
**Industry Canada:** ICES-003, Class A  
**International:** CE, C-Tick

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Specifications subject to change without prior notification. Ethernet<sup>®</sup> is a registered trademark of Xerox Corporation.

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