



Lingo With Touchscreen



Remote Touchscreen

**Lingo** the primary controller designed to manage and monitor the Novar Controls energy and information management system for large buildings and campuses.

Lingo's processing power, multiple network capabilities and optional touchscreen make it one of the most flexible information management systems available today.

It can be used to:

- Lower energy costs.
- Increase building comfort.
- Reduce equipment maintenance.

*Lingo's advanced technology enables it to:*

- Monitor and log system operations.
- Manage system communications.
- Centralize equipment control.
- Expand for growth.

**Lingo**<sup>®</sup>  
ENERGY INFOSYSTEM

Advanced  
Large Building  
And Campus  
Digital  
Controller

**NOVAR**<sup>®</sup>  
CONTROLS

*With Novar, you know.*



## Specifications



Lingo allows facility energy managers to access network systems to obtain real-time data to minimize energy usage and optimize demand control.

Lingo offers so much more:

- System expansion through peer-to-peer or master-slave configuration
- Control of up to 128 modules
- Multiple communication capabilities
- Centralized control for one or more buildings
- Optional remote touchscreen capable of communicating with multiple Lingos

### Physical Characteristics

<b>Height:</b>	26.25 inches
<b>Width:</b>	13.25 inches
<b>Depth:</b>	2.5 inches
<b>Weight:</b>	12 lb (All-aluminum enclosure)
<b>Mounting:</b>	Four slotted mounting holes on base with enclosed terminal strips for I/O and power connections and knockouts for 1/2-inch and 3/4-inch conduit fittings

### Operating Environment

<b>Temperature:</b>	32° to 140°F (0° to 60°C)
<b>Humidity:</b>	0 to 95% relative, noncondensing

### Electrical

<b>Voltage:</b>	24VAC (Class 2)
<b>Consumption:</b>	40VA
<b>Analog Inputs:</b>	4 to 20mA
<b>Digital Inputs:</b>	Contact closure only
<b>Output (Fault):</b>	24VAC or VDC, 2 ampere (pilot duty)

### Special Circuits/Diagnostics

<b>Low Voltage Detect:</b>	Senses proper operating voltage
<b>Temperature Sensor Monitor:</b>	Verifies outdoor temperature sensor operation
<b>Memory Test:</b>	Verifies memory size and functionality
<b>Watch Dog:</b>	Monitors and ensures Lingo timing and operation
<b>Surge Suppression:</b>	All inputs/outputs protected against lightning-induced surge or voltage transients
<b>Real-Time Clock:</b>	Quartz crystal provides day, month, date, years, hours, minutes and seconds; automatic synchronization

<b>Built-In Rechargeable Battery Backup:</b>	One hour UPS. Five year full memory and clock
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### Novar Network Communications

<b>Method:</b>	RS-485
<b>Cable (network):</b>	2-wire, shielded cable. Belden 8761 or equivalent
<b>NovarNet:</b>	Up to 32 Lingos
<b>Module:</b>	Up to 128 modules per Lingo

### Local Area Network (LAN) Communications

<b>Method:</b>	Ethernet (IEEE 802.3), RJ45 interface jack
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### Remote Communications

<b>Network:</b>	Ethernet (IEEE 802.3) LAN/WAN, RJ45 interface jack
<b>Phoneline:</b>	Industry standard modem, RJ11 interface jack

### RS-232 Communications

For use with a local personal computer or printer

### Memory

16M bytes RAM, 8M bytes flash memory

### Local Control

<b>Display:</b>	Remote or integral Touchscreen display, 1/4 VGA (320 x 240) resolution
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### Dedicated Inputs/Output (Global)

<b>Inputs:</b>	Outdoor Light Sensor, Outdoor Temperature Sensor, Demand Pulse, Phase Loss Sensor, Emergency Status
<b>Output:</b>	System Fault Output

Specifications subject to change without prior notification.



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