



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[®]
ENERGY INFOSYSTEM

Advanced
Large Building
And Campus
Digital
Controller

NOVAR[®]
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

Height:	26.25 inches
Width:	13.25 inches
Depth:	2.5 inches
Weight:	12 lb (All-aluminum enclosure)
Mounting:	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

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

Electrical

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

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 lightning-induced surge or voltage transients
Real-Time Clock:	Quartz crystal provides day, month, date, years, hours, minutes and seconds; automatic synchronization

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

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

Local Area Network (LAN) Communications

Method:	Ethernet (IEEE 802.3), RJ45 interface jack
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Remote Communications

Network:	Ethernet (IEEE 802.3) LAN/WAN, RJ45 interface jack
Phoneline:	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

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

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

Specifications subject to change without prior notification.



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