

Metasys® Field Controllers LONWORKS® Compatible

DX-9121

Digital Controller N2E

The DX-9121 LONWORKS® Digital Controller, is the ideal digital control solution for multiple chiller or boiler plant control applications, for air handling units or for distributed lighting and related electrical equipment control applications. The controller has both the hardware and software flexibility to adapt to the variety of control requirements in its targeted applications and can extend its input and output point capability by communicating with input/output (I/O) extension modules on an extension bus. The controller provides monitoring and control of all connected points at an integral LED display and keyboard or from a separate DT-9100 display unit. The DT-9100 display unit, with a text and graphic LCD screen and keypad, provides a standard and customized presentation of data according to the application and customer requirements. Both the DX-9121 controller and the DT-9100 display unit can be mounted within an electrical enclosure or in a cabinet door, and the DT-9100 display unit can also be mounted directly onto the controller within a panel, on a wall or can be used as a portable device. Additionally, each controller can share data with other DX-9121 controllers on the same N2E bus. When the N2E bus is integrated into a Metasys® system, point and control information is available throughout the network and at all Metasys operator workstations.



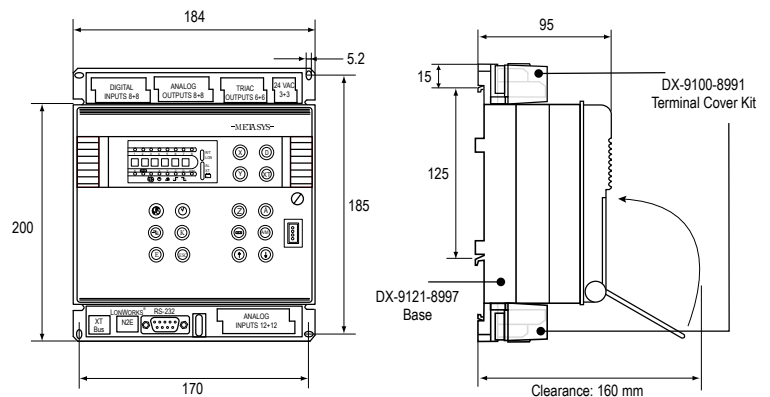
Model with LED display
and Keyboard in Cabinet Door
Mounting Frame



Black Box Model
on Panel Mounting Base

Features

- LONWORKS® network communications (Metasys N2E)
- Dynamic data access capabilities with NCM and Metasys system network
- Full set of control algorithms in software modules
- Graphic configuration tool
- Standalone control
- Real-time clock and time programs
- Trend data storage
- Extension bus for additional I/O points
- Extension modules for a variety of analog and digital I/O combinations
- Model with integral display and control panel
- Text and graphic display unit (DT-9100)
- Extension modules with manual override switches

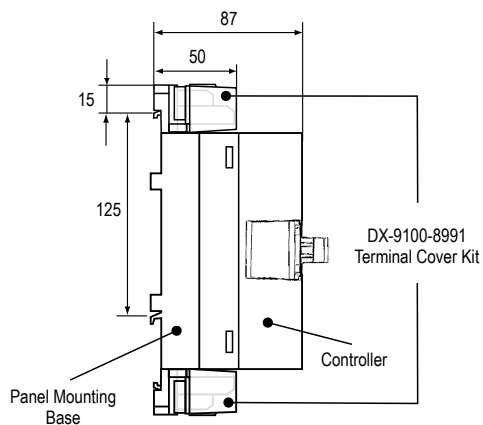
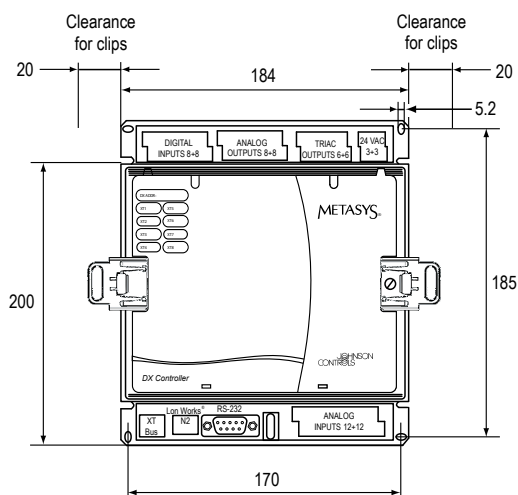


Dimensions in mm

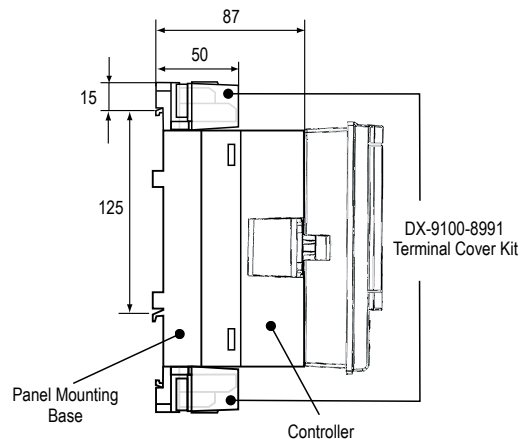
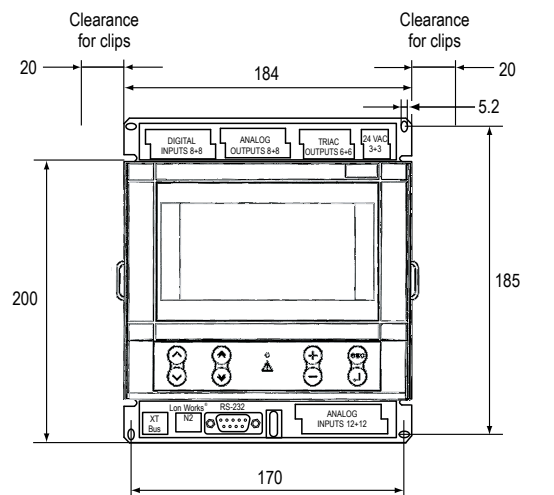
Ordering Codes	Analog Inputs	Binary Inputs	Analog Outputs	Binary Outputs	Panel with LED Display	Power Supply	Communication Bus
DX-9121-8004	8	8	8	6	NO (Black Box)	24 VAC ±10%, 50/60 Hz	FTT
DX-9121-8454					YES		
	Jumper Selectable ■ RTD (1KΩ NI) ■ 0-10 VDC Transmitter ■ 0-20 mA Transmitter (4 max.)	Dry Contacts	Jumper Selectable ■ 0-10 VDC ■ 0-20 mA (4)	24 VAC Triacs at 0.5 amps			

Note

Refer to DX-9200 Technical Bulletin for details of the LONWORKS network interface specifications. LONWORKS® is a Registered Trade Mark of Echelon Corp.

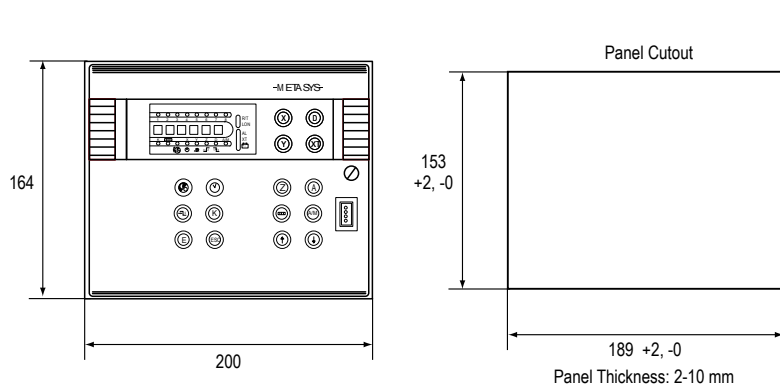


Black Box Controller DX-9121-8004
Dimensions in mm

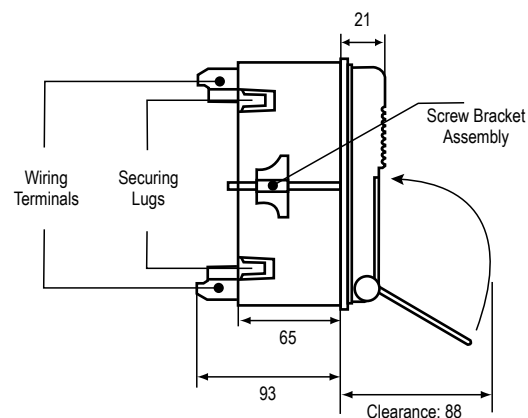


Black Box Controller DX-9121-8004
with LCD Display DT-9100-8204
Dimensions in mm

Installation Details of the DX-9121-8454 Controller with Cabinet Door Mounting Frame



Front View



Side View

DX-9121 **Digital Controller N2E**

DT-9100 Display Unit

Ordering Codes	Description	
DT-9100-8204	Display unit with panel mounting kit for DX-9121-8004	24 VAC $\pm 10\%$, 4VA 50/60Hz or 9 to 12 VDC, 2 VA
DT-9100-8902	Display unit wall mounting kit	
DT-9100-8901	12 VDC power supply for 230 VAC source	

Software and Accessories

Ordering Codes	Description
DX-9121-8997	Panel Mounting Base with Terminal Covers for DX-9121-8004 and DX-9121-8454
DX-9121-8996	Cabinet Door Mounting Frame for DX-9121-8454
DC-9100-8905	Access protection key for DX-9121-8454
DXDC-BAT-KIT	Replacement battery kit
BAT-CR2032	Coin battery replacement

Note

For DX Configuration Tools Software contact your local Johnson Controls office.