

DX

LCD Display Terminal (DT-9100)



Description

The DX LCD Display Terminal is a user interface for the DX Series controllers. The display can function as a simple adjustment and indication unit, or it can be used to perform more complex workstation tasks. It is designed for the maintenance person who needs a straightforward way to monitor and adjust controller points. The display can be a portable, hand-held unit for more than one controller, or permanently mounted in a panel or on the wall as an integral part of a single controller.

The DX LCD Display provides diagnostic views of the system controlled by the DX controller. For example, it can show mixed air, discharge air, and zone temperature at the same time. It can also show setpoints, actual temperatures, and controller outputs on a single screen.

The DX LCD Display stores up to eight separate display configurations. A configuration specifies up to 96 points (items) of the DX controller that the DX LCD Display can display and monitor. Each unique configuration includes 12 trend definition variables and a graphical home page.

When an alarm condition is detected, an audible alarm is sounded and a Light-Emitting Diode (LED) flashes. The maintenance person can acknowledge and stop the audible alarm by pressing a key. The Alarm Summary provides an overview of all points currently in alarm state.

Features

- easy, intuitive operating menu for selecting functions to monitor and control the system
- point data screen for fast identification of operating values
- easy system diagnostic tool showing input, setpoint, and output values simultaneously
- upgradeable firmware using standard tools

- user-defined text for creating familiar point descriptions unique to specific installation
- alarm/summary log for quick view of current and past alarm conditions
- password access for protection against unauthorized use
- adjusting/overriding capabilities allowing authorized users to adjust setpoints and to override outputs between defined limits
- time schedule and holiday definition
- graphical trend log display of analog and textual digital trend values supported by the controller
- user-definable graphical home page that can, for example, display a customer's logo and live data from the DX controller

Applications

Small supervisory system for up to eight DX Series controllers using DT-9100 Version 3.x, communicating over the N2 bus (only when no supervisory controller is used on N2).

To Order

Specify the code number from the following selection chart.

Specifications

DX LCD Display Terminal (DT-9100)	
Power Requirements	Power supplied from 24 VAC @ 4 VA maximum or 9-18 VDC from AC Adaptor (nominal: 50 mA @ 12 VDC)
Terminations	Separable Terminal Block for 1-1.5 mm ² /14 AWG (maximum) cables for 24 VAC supply only Universal jack connection for DC power supply (AC Adaptors)
DX Communication Cable/Wiring	9600 baud asynchronous, half duplex via 6-pin RJ12 telephone-style jack 0.09 mm ² (28 AWG) phone cable Maximum 15 m (50 ft)(RS232C) Note: DX/PC plug adapter supplied. Order MM-CVT101 adapters separately.
Ambient Operating Conditions	0 to 50°C (32 to 122°F) 10 to 90% non-condensing relative humidity 30°C (86°F) maximum dew point
Ambient Storage Conditions	-20 to 60°C (-4 to 140°F) 10 to 90% non-condensing relative humidity maximum dew point
Dimensions (H x W x D)	150 x 180 x 47 mm (5.91 x 7.09 x 1.85 in)
Shipping Weight	0.78 kg (1.72 lb)
Display	LCD 16 x 40 characters (240 x 128 pixels) Screen Size: 110 x 60 mm (4.3 x 2.4 in.) Backlit with time-out for extended life
Agency Listings	CE Directive 89/336/EEC: EN 50081-1, EN 50082-1 UL916 and cUL FCC Part 15 - Class A - CISPR22B
Standards Compliance	Housing UL94-V0 Protection IEC529 IP30 for hand-held and wall mounting applications IEC529 IP42 for panel mounting applications

Selection Chart

Code Number	Description
DT-9100-8104	DX LCD Display Unit (includes Panel Mounting Kit)
DT-9100-8902	Wall Mounting Kit
DT-9100-8903	Replacement Panel Mount Kit
DT-9100-8904	Plug adapter for MM-CVT converter
NP-PWR1209-0 (120 VAC Source)	9 VDC Power Supply
MW-MTOOL-0	System Tools (includes GX-9100 Tool)
MW-MTOOL-6	System Tools Upgrade
MM-CVT101-0	RS232 Converter for N2 Communication

Repair Parts

Code Number	Description
DT-9100-6801	Serial Communication Cable .45 m (1.5 ft) extending to ≥ 1.4 m (4.5 ft) length