

Programmable Logic Controller *Genie™-M*

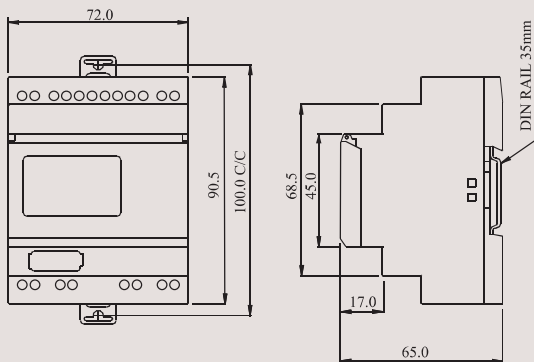
- Supports upto 48 I/Os (32 digital inputs & 16 digital outputs)
- 250 lines of ladder programming
- 16 soft text messages, Time Switches, Compare Counters

- Backlit LCD Screen for display & modification of pre-selected parameters of functional blocks, viewing I/O status and programming on the device
- PC software for programming, online & offline simulation, documentation & printing
- Design for use in automation for commercial & Industrial sectors

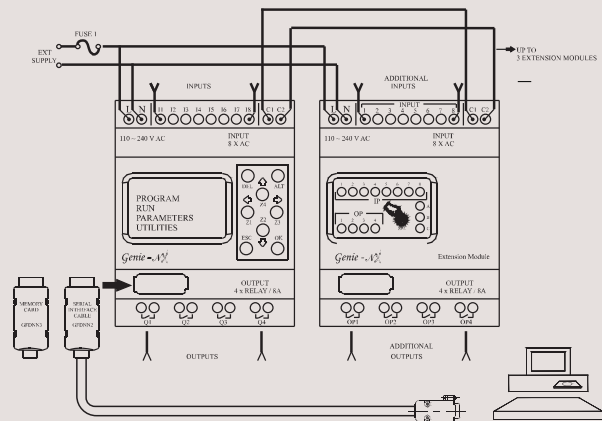


Cat. No.	G7DDT9	G8DDT9
Parameters		
Supply Voltage	110-240 VAC, 50-60Hz	12-24 VDC
Supply Variation	-20% to +10% of normal voltage	
Max. Supply current	36 mA	360 mA
Power Consumption	~5W	
Analog input range	N.A.	0 to 10 VDC
Digital input range	(0-40 VAC) OFF, (70-265 VAC) ON	(0-4 VDC) OFF, (7-26.4 VDC) ON
Digital inputs	8	6
Analog inputs	N.A.	2 (can be used digitally)
Modbus Communication	Yes (RTU) (Slave)	
Switching contacts	4 SPST Relays, 8A @ 240 VAC / 5A @ 30 VDC (resistive)	
Timers	16	
Counters	16 (up / down & retentive selectable)	
Analog Functions	N.A.	12
Time Switches	16 (weekly / daily)	
Compare Counters	16	
Soft Messages	16 Priority Driven	
Auxiliary Relays	32	
I/O Extension (Max)	Yes (3)	
Power reserve (for clock only)	150h (lithium Battery) at 0 to 55°C	
Lines for ladder program	250	
Protection	IP20 for front panel only (Conforming to IEC 60529)	
External Protection	Fuse 250 mA	Fuse 500 mA
Storage temperature	-20° C to +70°C	
Operating temperature	0° C to +55°C	
Maximum Relative Humidity	35 to 85 % no condensation	
Mounting	Base / DIN rail	
Dimensions (W x H x D)	72 X 65 X 90 (in mm)	
EMI/ EMC Radio Interference Suppression ESD Electrical Fast Transients Surges Voltage Dips	CISPR 14-1 Class B IEC 61000-4-2 Level III IEC 61000-4-4 Level IV, Repeat Frequency 5 - 100 kHz IEC 61000-4-5 Level III, Common mode 4 kV, Differential Mode 2 kV IEC 61000-4-11, 30% reduction / 10ms, 60% reduction / 100ms	
Mechanical Resistance : Immunity to Vibrations	Vibration Tests as per IEC 68-2-6,	
Certification	CE	
Weight	248 g	232 g

MOUNTING DIMENSION (mm)



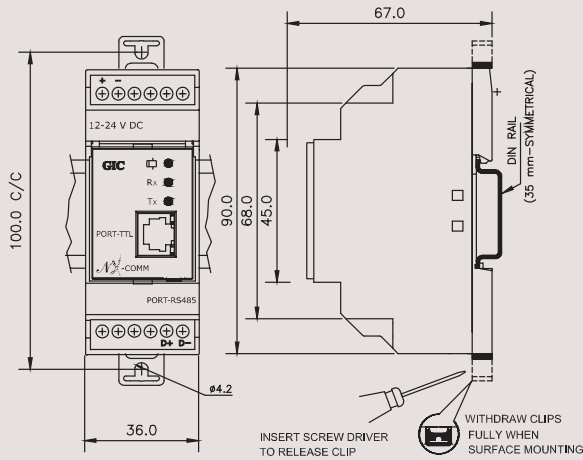
CONNECTION DIAGRAM



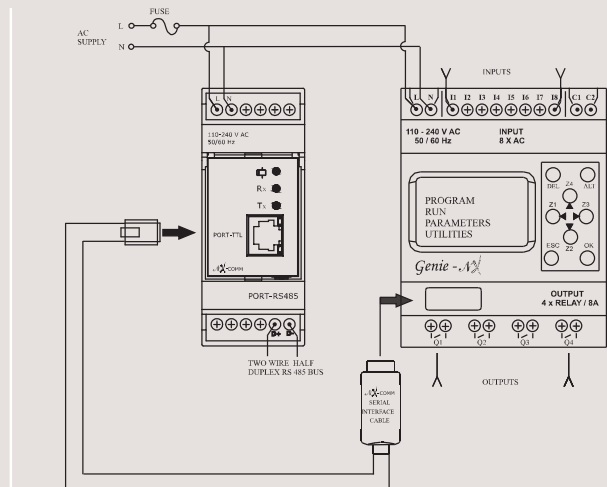


Cat. No.	G7XDTR4	G8XDTR4
Parameters		
Supply Voltage	110-240 VAC	12-24 VDC
Input	TTL Level	
Output	RS- 485 protocol (two wires, D +, D -)	
Number of Nodes	32 standard unit loads	
Isolation voltage	2000 Vrms	
Baud Rate	300,600,1200,2400,4800,9600	
Operating temperature	0 - 55 °C	
Storage temperature	-20 - 70 °C	
Modbus Communication	Yes (RTU) (Slave)	
LED Indicators	Red LED's for Tx & Rx. Green LED for Supply.	
Certification	CE	
Weight	80 g	

MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

 Ø 3.5 mm	Torque 0.54 N.m (5 Lb. in) Terminal Screw - M 2.5
	1 x 0.2 - 3.3 mm ² Solid Wire / single wire ferrule 2 x 0.2 - 1 mm ² Insulated with twin ferrule
AWG	1 x 24 to 12

ORDERING INFORMATION

Cat. No.	Description
G7DDT9	110-240 VAC, Genie Nx Base Module
G8DDT9	12-24 VDC, Genie Nx Base Module
G7DDT6E	110-240 VAC, Genie Nx Extension Module
G8DDT6E	12-24 VDC, Genie Nx Extension Module
GFDNN3M	Memory Card
GFDNN2S	RS 232 Serial Communication Cable
GFDNN1	USB Cable
GNXNN1	Genie Nx Software supplied on CD-ROM compatible with Windows 98, 2000, XP & VISTA.
G7XDTR4	110-240 VAC, RS 485 Module
G8XDTR4	12-24 VDC, RS 485 Module
GNXNNRC	RS 485 Serial Cable



FEATURES

Programming:

Programming can be carried out independently using the keys on the Genie NX base module with the help of ladder diagram & on a PC, using "Genie NX Soft" software.

When using a PC, programming can be carried out either in Ladder Language.

LCD Backlighting:

Backlighting of the display will be there for minimum 15 seconds & by direct action of the keys on the base module or by using the "Device Utilities "option in Genie NX Soft application software.

Memory:

Genie NX has a back up memory, which allows programs to be transferred or copied into another Genie NX with the help of memory card. This feature enables quick copy of the programs without the use of a laptop or PC.

I/O Extensions:

User can connect maximum 3 Extension Modules to the Genie NX base module & each Extension Module has 8 inputs and 4 outputs, so we can expand up to 48 I/O extensions if necessary via the Genie NX. Expansions are made in daisy chain fashion.

Communication Module:

A module for communication on the Modbus network is available, which is called "NX-Comm. "to facilitate communication of the logic relay over a 2 wire half duplex RS 485 link. Modules are powered by 110- 240 VAC or 12- 24 VDC supplies. The base module can be connected to this communication interface by means of the cable supplied and the communication takes place via the NX-Comm. on the RS 485 link.

APPLICATIONS

For Industry:

- Printing and Packaging machines
- Ancillary equipments in textile, plastic.
- Material handling equipments or of conveyors.
- Interlocking units in distributed control systems.

For Commercial / Building Sector:

- Automation of barriers
- Automation of compressors and pumps for air conditioning requirements
- Automation of lights