

Multi-Protocol Programmable Controller



Features

- Freely programmable
- Dynamic graphics
- Universal inputs
- Analogue outputs

Specification

CPU: 80MHz, 32 Bit

Memory:

8MB RAM (User Application Space)

2GB Non volatile data storage (Graphics, Logs, Alarms)

4096 Lon Network Variables

Supply:

24-36Vdc

24Vac @ 6VA (typical)

Connectivity:

LonTalk® TP/FT-10, 78Kbps

RS232 Trend®, SMS

RS485 Modbus®, BACnet® MS/TP

Ethernet Graphics, Logs, Alarms

Ethernet SNMP, Trend®, BACnet® IP

Ethernet Engineering software tool

I/O:

8 x UI 0-10V, 0-20mA, thermistor, resistive, VFC

4 x AO 0-10V

2 x DI VFC, TTL, pulse counter

2 x DO 1A 24V relay contact

A to D 16-Bit resolution

Enclosure UL94-V1 grey plastic

Dimension L157 x W98 x D59mm

Mount TS35 DIN rail (Len: 155mm)

Connectors:

Power 2 Part screw terminals

RS232 DB9 male socket

LonTalk® 2 Part screw terminals

RS485 2 Part screw terminals

Ethernet RJ45

I/O 2 Part screw terminals

Environmental:

Storage -20°C to 70°C

Operating:

Temperature 0 °C to 60 °C

Humidity 0 to 90% RH non-condensing

Country of origin UK

Product Codes

CN-MPC

Multi-protocol programmable controller

Technical Overview

The CN-MPC multi-protocol programmable controller brings together the power of the Internet, LonTalk®, Trend®, BACnet® & ModBus® technologies, and offers unrivalled capability for easy open integration between products from a wide range of BMS manufacturers. The CN-MPC is freely programmable, and comes complete with an embedded web server that delivers complete dynamic supervisory graphics to a web browser, together with alarm handling, data logging and event scheduling.

Each CN-MPC has 8 universal inputs, 4 analogue outputs, 2 digital/pulse inputs and 2 digital relay outputs as standard. The CN-MPC removes the need for a dedicated supervisor PC, operating system and network interface card, so considerably reducing the costs normally involved with control and monitoring, making it ideal for smaller sites such as retail chains and schools, but it equally well suited to the largest buildings. Capable of communicating with LonTalk®, Trend®, Modbus®, SNMP and BACnet® at the same time provides an easy upgrade path to an open system or to expand an existing site using otherwise unavailable technologies. The CN-MPC can also operate stand alone without a LonTalk® or other network attached, if required.

Configuration of both user application and graphics could not be easier with the FREE engineering tool that allows the creation of strategies using drag and drop modules such as PID loops, logic, functions, data logs, alarms and time schedules. The same applies to functional profile usage and creation, with full access to the LonMark® resource catalogue, standard and third party functional profiles.

Data Logging

Logs can be viewed, stopped and started via the browser as well as automatically emailed out on a scheduled basis.

Time Schedules

Schedules have up to 4 on/off periods per day and special days can be created to override normal schedule operation.

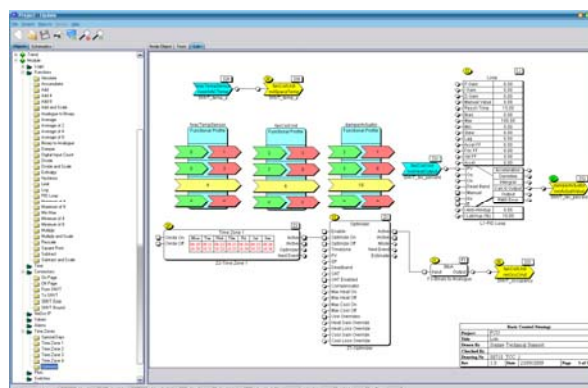
Alarm Management

Alarms are logged and can be emailed or sent as SMS messages.

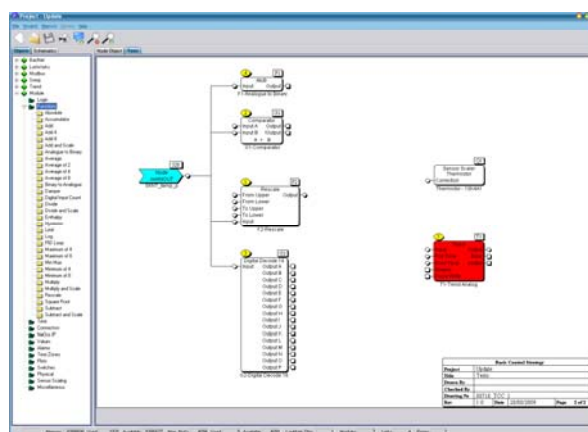
For more information, please see the user manual for the CN-MPC.

Programming

Programming the CN-MPC is accomplished using the freely downloadable software.



LonMark® compliant FPTs, NVs and CPs are added by a simple drag-and-drop facility. Similarly, a large range of programming modules, such as logic, function, time zones etc. can be added. ModBus, SNMP and other protocol modules can also be added.



Dragging and dropping links join up the various modules to form comprehensive control and communication strategies. The software also allows fully-featured web pages to be quickly and simply designed. The results are then compiled and loaded into a device over IP.

When updates for the software become available, these may also include updates for the device firmware as well, and these are automatically loaded to the devices using the software.

User-defined macros can be simply created, and a simulation mode allows a user to test strategy functionality before downloading to a device.

For more information, please see the user manual for the programming software.