



Features

- LonWorks Digital Module with 8 Input and 8 Output Pins and Real Time Clock.
- Each Pin Configurable with LNS plug-in.
- Inputs are direct digital inputs with pull-downs and 5v common for volt-free contacts and polarity protection
- Outputs are 3 pin individual volt-free change-over relay contacts, rated at 6A 250vAC
- Battery backed Real Time Clock counting seconds, minutes, hours, days, months and 4 digit years
- Full LonMark® network interface using SNVTs and SCPTS with self documentation
- Inputs and Outputs fully configurable for debounce and with timing and counting functions
- Transceiver options as per CNS DV03 Control Module including Radio
- Power Supply requirements – 10v – 40v AC/DC
- Din Rail mounting enclosure to IP20



Description

The CNS Digital 8 I/O unit is a LonWorks node that enables un-intelligent non-communicating plant and equipment to be brought into the intelligent and communicating world of LonWorks. It is a highly flexible building block of control, which can be programmed by the user or configured by the user using an LNS Plug-in as below. As it is based on our highly successful CNS DV03 Control Module a wide range of external memory options are available including as replacement to the on board standard fitted SRAM, NVRAM. The unit can also be supplied with a wide range of transceiver types to include Radio.



Functions

Each digital input available as:

- raw network variable output with pre-set debounce timer
- time-stamped network variable output with pre-set debounce timer
- polarity pre-set to detect positive going edge, negative going edge or both

Each digital input may be directed into a 32bit counter with the following abilities

- to count and record continuously for years
- to store its value to EEPROM every 2 hours
- with a SCPT which sets the frequency that the output network variable is updated
- to reset the count value to zero

Timers - there is a block of four timers each of which perform run-time totalisation. These are second timers that can be used either continuously or for run-time totalisation to monitor periods of on time during a number of ON/OFF cycles. Timers are accessed via input and output network variables so can be driven from local inputs or from across the network.

Each Digital Output may be driven:

- directly with a short pre-set inertial delay to prevent rapid switching
- via pre-set time stamps as On-time and Off-time

Installation

LonMaker for Windows supports installation of any LonWorks node. The node uses LonMark SNVTs, self-documentation and LonMark Objects allowing easy installation and configuration. In particular, extensive use of SCPTs will provides access to the various set-up parameters for the digital inputs, outputs, counters and timers within the node.



The use of SNVTs allows easy determination of the exact function of each unit. The automated support provided by LNS offers easy creation of graphic LonMark objects within LonMaker for Windows and minimises the documentation needed to work with the module.

Specification

Lon Network:	FTT, LPT, TPT1250 or RF
Inputs:	direct digital inputs with pull-downs and 5v common* for volt-free contacts and polarity protection
*Warning – Make sure that either the Signal Common and Power Supply Ground are tied together or are completely isolated to ensure the possibility of creating a Ground Loop is avoided	
Output Relays:	3 pin individual volt-free change-over relay contacts, rated at 6A 250vAC
Power Supply:	10 to 40Vac/dc
Power Consumption:	Typical - 2.5W or 3VA Typically 700mW for CPU/system and 225mW for each relay Maximum – 9VA to allow for power up inrush
Environmental:	Operating -10 to 70°C Humidity 5 to 95% RH
Dimensions:	150Bx110H x75L (mm)
Packaging:	Din Mountable, IP20, UL & CSA approved
Terminals:	Screw terminals**

****Warning – maximum torque strength when assembling the clamps should be 0.4 Nm. Failure to take note of this will invalidate the CNS Warranty.**

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