

3505L Digital Fan Coil Unit Controller

Specification Data

General

The 3505L Provides digital Control of Fan Coil Units (FCU), and uses the LonTalk Communication Protocol. In addition to FCU start / stop operation, valve control, and fan speed changeover, 3505L provides advanced control interfaces such as room windows reed switch and person in room sensor inputs.

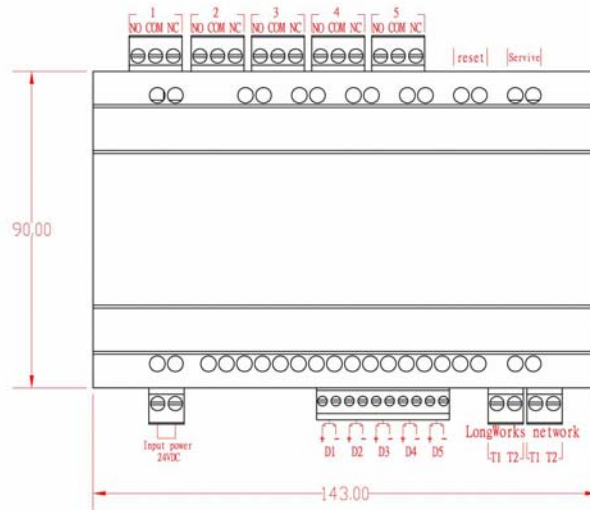
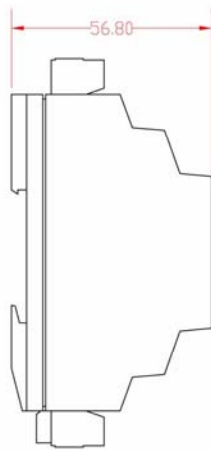
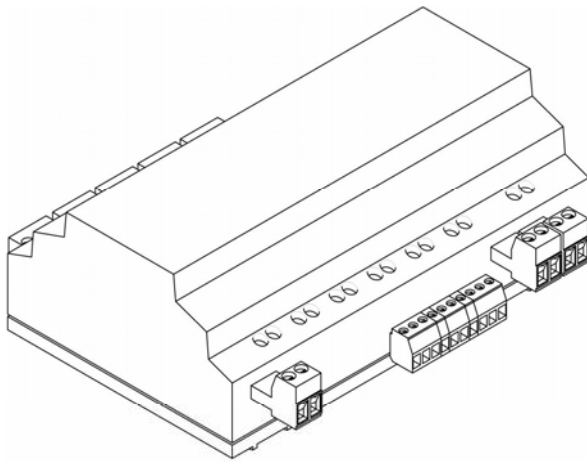


Furthermore, the configuration interfaces are designed easy-to-use, simplify complex programming and sequencing methods by prompting the user for the necessary configuration data. The controller then automatically selects the operation sequence, according to the input and output configurations and dynamically adapts itself to the network variables that are bound to the controller.

Features

- LonTalk protocol
- Suitable for mounting on a standard DIN rail
- Connectors facilitate wiring installation
- Valve on/off Control
- Fan speed changeover
- 5 Relay DO (3 for Fan speed control and 2 for valve control)
- 5 Dry Contact DI (2 for reed switch and PIR sensor, 3 for general uses)

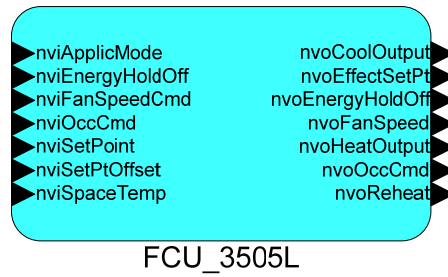
Dimensions



Specifications

CPU	Echelon Neuron 3150,10MHz	
Memory	48Kbytes flash EPROM,8Kbytes SRAM	
LonWorks Transceiver	FTT-10A/FT-X1	
Power supply	DC 24V \pm 10%	
Power consumption	200mA @24VDC	
Connection	Plug-screw clamp 0.2-2.5mm	
Environment Temperature	Operation	0 ~ +50°C
	Storage	-20 ~ +70°C
Admitted relative humidity	5 ~ 93%, non condensing	
Dimensions	W143.6mm X H119mm X D57.3mm	
Mounting	DIN Rail (EN 50022,35x15)	
Display & Operation	Service-pin and Reset LED indicator and button.	
I/O Channels	5 Relay Output Channels. (max. 8Amp per channel)	
	5 Dry Contact Input Channels.	

Objects and network variables

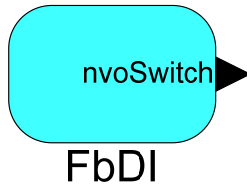


Network Variables

NV Name	NV Type
nviApplicMode	SNVT_hvac_mode
nviEnergyHoldOff	SNVT_switch
nviFanSpeedCmd	SNVT_switch
nviOccCmd	SNVT_occupancy
nviSetPoint	SNVT_temp_p
nviSetPtOffset	SNVT_temp_p
nviSpaceTemp	SNVT_temp_p
nvoCoolOutput	SNVT_lev_percent
nvoEffectSetPt	SNVT_temp_p
nvoEnergyHoldOff	SNVT_switch
nvoFanSpeed	SNVT_switch
nvoHeatOutput	SNVT_lev_percent
nvoOccCmd	SNVT_occupancy
nvoReheat	SNVT_switch

Configuration Properties

CP Name
SCPTbypassTime
SCPTmaxRcvTime
SCPTmaxSendTime
SCPTminSendTime
SCPTnumValves
SCPTsetPnts
SCPTactuatorType



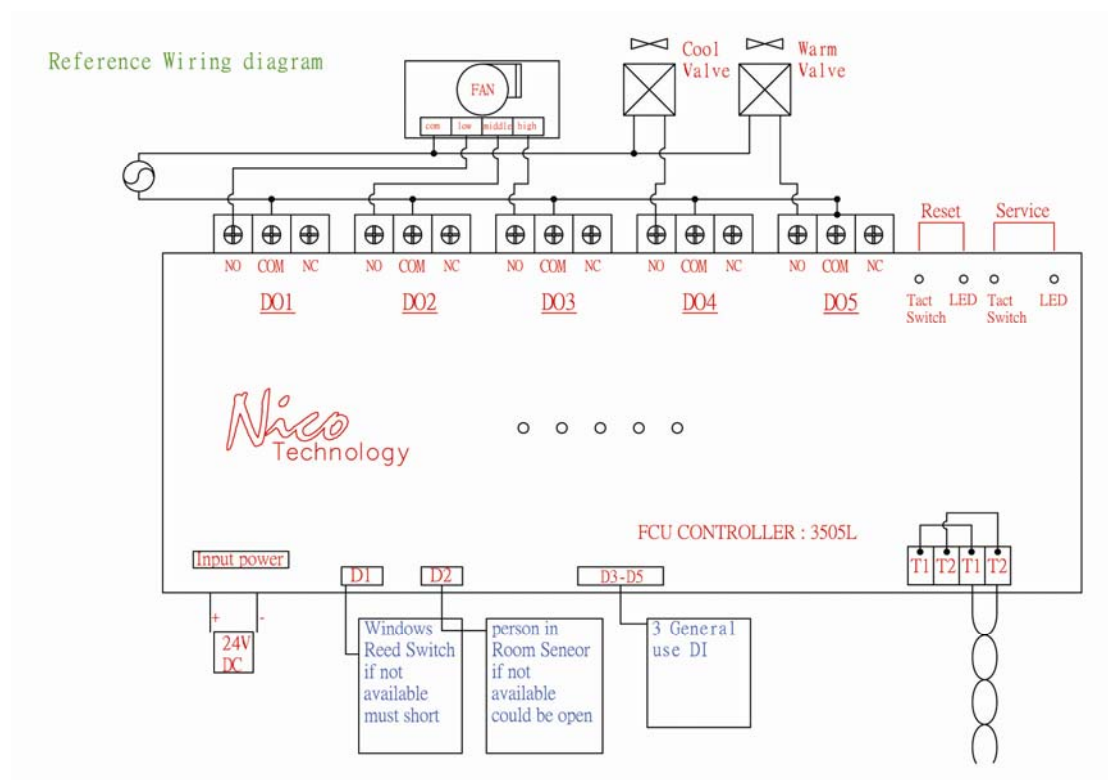
Network Variables

NV Name	NV Type	Comment
nvoSwitch	SNVT_switch	3505L DI channel state

Configuration Properties

CP Name	Comment
SCPTlocation	Location Label
SCPTobjMajVer	Function Block Major Version
SCPTobjMinVer	Function Block Minor Version
SCPTovrBehave	Override Behavior
SCPTdebounce	Debounce Time This configuration property defines the debouncing time for hardware sensor
SCPTdefOutput	Default Output
SCPTinvrtOut	Invert Output
SCPTmaxSendTime	Maximum Send Time(Send Heartbeat)
SCPTminSendTime	Minimum Send Time(Send Heartbeat)
SCPTovrValue	Override Value

Reference wiring diagram:



Reference documents

5106 & 3505.JPG

Fan Coil Controller.pdf