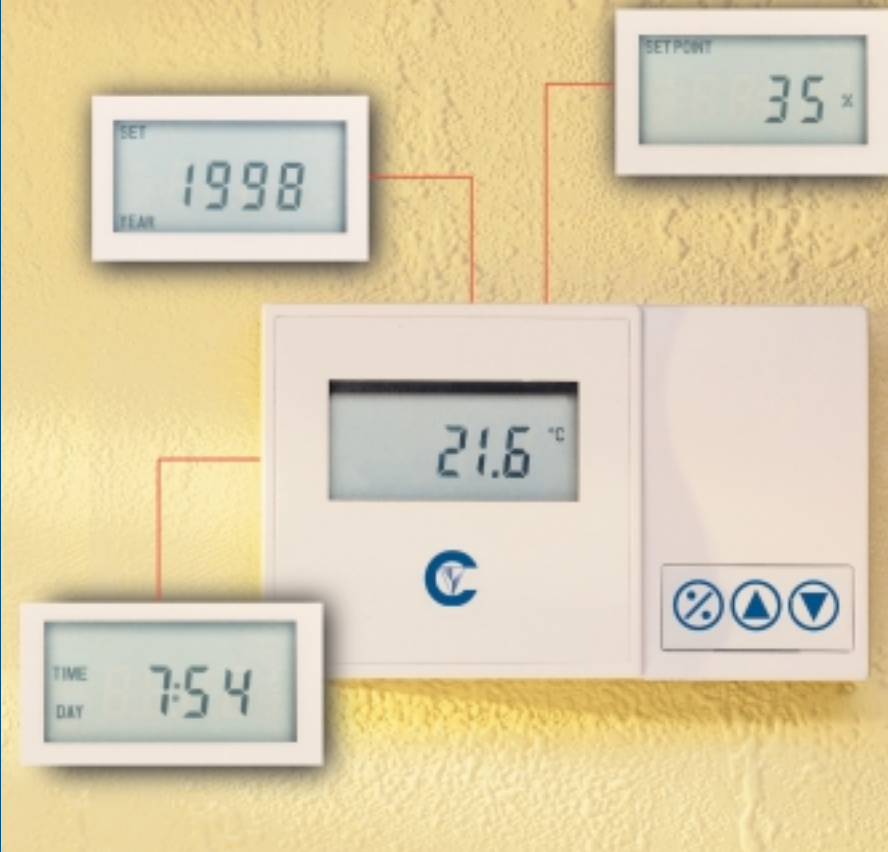


Technical Data

Thermostat
Humidistat
Real time clock
ECT-100



Lonwork® Product
Lonmark compliant



Description

The electronic thermostat/ humidistat/Realtime clock enables you to regulate ambient temperature and humidity conditions. It can also be connected to ventilation ducts with a remote sensor. The thermostat/ humidistat, prevents condensation by automatically adjusts the indoor temperature and humidity set point in relation to the outdoor.

Special remote sensors for liquids can also be used for various applications (thermometer)

Features

- Liquid cristal display (LCD) of temperature and /or humidity and/ or time
- Temporary display of set points when adjusted
- Mode change (thermostat/humidistat) and three-touch adjustment
- Night-time mode available (automatic decrease temperature)
- Set points store permanently in case of power failure
- Additional outlets for remote temperature (outdoor sensor) and humidity sensor (room or duct)
- Available in C° or F° with +/- 0.1° +/- 2% R.H. accuracy
- High and low limits available
- Clock option or clock only; read year, month, week, day and time, profile Lonmark 3301
- Thermostat profile Lonmark 8060 ECT108-Profile 8010
- Temperature sensor profile 1040



CRISTAL CONTROLS

MANUFACTURER OF ELECTRONIC ENERGY CONTROLS

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Technical Data

Thermostat • Humidistat • Real time clock

Technical Specifications

Neuron 3150
 Clock speed 5 MHz
 Transceiver : LPT-10 ,FTT-10,RS485
 Memory : Flash Eprom 32k
 Power consumption : 30 ma @ 24 Vac Supply :
 9 volt to 35 Vdc or 9 volt to 24 Vac + - 10%
 Set point adjustment : adjustable
 Control Point Resolution : 0.5°C
 Proportional Band : adj
 Storage temp : -20 °C to 70 °C (-40 °F to 133°F)
 Operating temp : 0 °C to 50 °C (32 °F to 185 °F)
 Dimension 114.3 mm (4 1/2") x 69.9 mm (2 3/4")

Thermostat profile Lonmark
 8060 available

Clock Variables profile Lonmark 3301
 available

Variables description

- Node Object:

- nvi Request To request status of the objects
- Supported values:RQ_NORMAL,RQ_UPDATE,_STATUS,RQ_REPORT_MASK
- nvoStatus To view the status the objects
- nviTime Set To change date and time of the node
- nviFile Req To do file transfer
- nvoFile Stat To do file transfer
- nvo File Directory The address of the file directory in the node

- Real Time Keeper

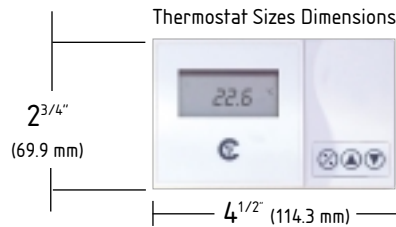
- nvoDateTime Display date and time
- nvoDay Of Week Display the day of week
- Variables configurable by file transfer
- SCPTupdate Rate The update rate of nvoDateTime. Default is 1 minute
- SCPT manual Allowed To allow to set the time with the buttons. Default is TRUE

- Scheduler

- nvo Scene The current state of the scene
- Variables configurable by file transfer
- SCPT mode HrtBt To have periodic retransmission of nvo Scene
- Default is 0 (transmit on change only)
- SCPT defWeek Mask Indicate a default starting event for each day of the week
- SCPT day Date Index Indicate a starting event for a date interval
- 20 dates intervals are possible
- SCPT time Event This is the list of all possible events
- 100 events are available
- The use of the buttons
- 6 possibles states are possible
- (1) Display Time Press [^] or [v] to go to (2)
- (2) Hour Set Press [%] to go to (3)
- Press [^] or [v] to change the hours
- (3) Minute Set Press [%] to go to (4)
- Press [^] or [v] to change the minutes
- (4) Year Set Press [%] to go to (5)
- Press [^] or [v] to change the year
- (5) Month Set Press [%] to go to (6)
- Press [^] or [v] to change the month
- (6) Day Set Press [%] to go to (1)
- Press [^] or [v] to change the day

Temperature Variables

Humidistat (Only) object



nvoHumid	SNVT_lev_percent	Current relative humidity.
nvoHumidSP	SNVT_lev_percent	Relative humidity set point.
nviHumidSP	SNVT_lev_percent	Change the humidity set point over the network.
nciRHOffset	SNVT_lev_percent 0%	Offset to calibrate the humidity reading. This value is added to the actual reading.
nciRHUpSP	SNVT_lev_percent 100%	The maximum humidity set point a user can adjust with the "up" button.
nciRHDnSP	SNVT_lev_percent 0%	The minimum humidity set point a user can adjust with the "down" button.
nciRHMinDelta	SNVT_lev_percent 1%	Humidity must vary 1% before being transmitted over the network.

Temperature and Humidistat objects

nciMaxSendTime	SNVT_time_sec	5 minutes The humidity / temperature max send time (5 minute maximum)
nciMinSendTime	SNVT_time_sec	5 seconds The humidity / temperature min send time (5 second minimum)

Temperature (Only) objects

nvoTemp	SNVT_temp	Current temperature reading.
nvoTempSP	SNVT_temp 22°C	Temperature set point.
nviTempSP	SNVT_temp	Change the temperature set point over the network.
nciTempMinDelta	SNVT_temp 0.3°C	Temperature must vary 0.3°C before being transmitted over the network.
nciTempOffsetInt	SNVT_temp 0°C	Offset to calibrate the temperature reading. This value is added to the actual reading of the onboard sensor.
nciTempOffsetExt	SNVT_temp 0°C	Offset to calibrate the temperature reading. This value is added to the actual reading of the external sensor.
nciTempUpSP	SNVT_temp 35°C	The maximum temperature set point a user can adjust with the "up" button.
nciTempDnSP	SNVT_temp 16°C	The minimum temperature set point a user can adjust with the "down" button.
nciTempCalibInt	SNVT_count	Factory setting To calibrate the software with the hardware components (On board sensor). Usually about 2000.
nciTempCalibExt	SNVT_count	Factory setting To calibrate the software with the hardware components (External sensor). Usually about 2000.

Technical Data

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ETC-100 Temperature sensor object details

