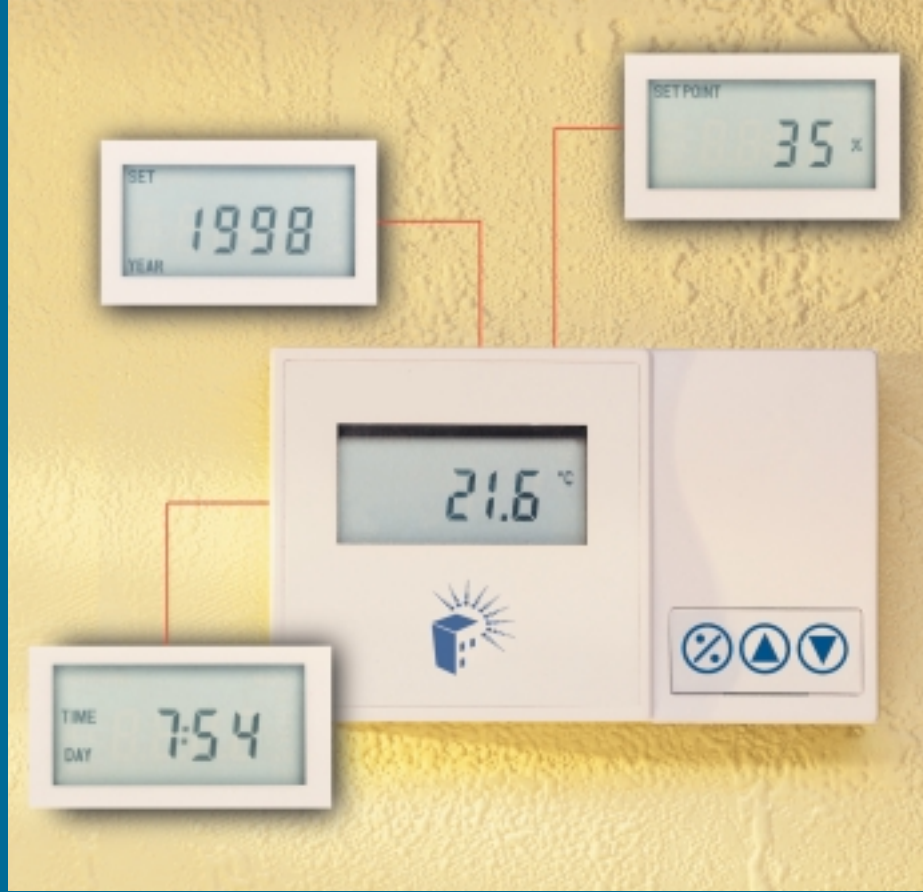


Technical Data

ECT-102

Thermostat Humidistat Real time clock

Lonwork's® Product
Profile 8060
Clock Profile 3301



Description

The electronic 2 outputs 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.

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

Features

- Liquid cristal display (LCD) for temperature and /or humidity and/ or time (Blind version also available).
- Temporary display of set points when adjusted
- Mode change (thermostat/humidistat) with key pad
- Night-time mode available (automatic set back temperature)
- Set points store permanently in case of power failure
- Additional inputs for remote temperature sensor(room or duct) or humidity sensor (room or duct)
- Available in C° or F° with +/- 0.1° +/- 2% R.H. accuracy
- High and low limits set available
- 2 x 0-10 volt outputs or 2 on/off outputs NC or NO



1375 bl Charest 0, no 25 Quebec, Que. Canada G1N 2E7
Phone 1.800.681.9590 ext.227 (USA & Canada)
1.418.681.9590 (for all others)
Fax 418.681.7393
E-mail cristal@cristalcontrols.com

www.cristalcontrols.com

Technical Data

Thermostat • Humidistat • Real time clock

Technical Specifications

Neuron 3150

Clock speed 5 MHz

Transceiver : LPT-10 on request ,FTT-10

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 8060 available

Clock Variables profile 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

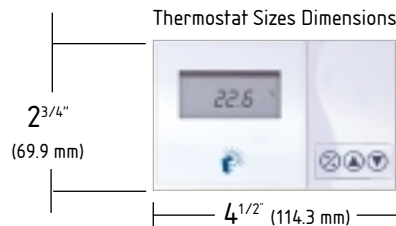
- nvoDateTime Display date and time
- nvoDay Of Week Display the day of week
- Variables configurable by file transfer
- SCPTupdate Rate The update rate of nvoDateTime. Default is 1 minute
- SCPT manual Allowed To allow to set the time with the buttons. Default is TRUE

- Scheduler

- nvo Scene The current state of the scene
- Variables configurable by file transfert
- 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.