

Insteon - Feature #911

Humidity and temperature level chart

11/23/2014 01:30 AM - Luke Murphey

Status:	New	Start date:	11/23/2014
Priority:	Normal	Due date:	
Assignee:	Luke Murphey	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	0.10		
Description			
Related issues:			
Related to Insteon - Feature #1004: Alert: temperature too high or too low			Closed 05/21/2015

History

- #1 - 11/29/2014 07:24 AM - Luke Murphey
- Tracker changed from Task to Feature
 - Subject changed from Add humidity level chart to Humidity level chart
 - Parent task deleted (#898)
- #2 - 01/09/2015 07:40 AM - Luke Murphey
- Subject changed from Humidity level chart to Humidity and temperature level chart

I am seeing log messages that might indicate temperature settings.

The data contains the following:

010315212c20501400dbc2484815
01030e341520501700e0c048cdc3
01030e263820501800dbc248fb39
01030e263620501800dbc248a3fa
01030d290720501800dbc2480314
010212313920501a00dbc248d445
01060c023220501c00e0c0485b97

Taking a look at the values, it appears it may be broken up something like:
010.315212c.20501.400db.c2.48.4815

Converting that to decimal gets:
010.31521212.20501.4001311.122.48.4815

- #3 - 01/09/2015 07:41 AM - Luke Murphey
- Target version changed from 0.5 to 0.6

#4 - 04/11/2015 12:39 AM - Luke Murphey

- Target version changed from 0.6 to 0.9

#5 - 05/21/2015 04:07 AM - Luke Murphey

See the following document for information on the 6e and 6f commands.

Below is a search with the temperature from the thermostat:

```
sourcetype=insteon_plm from=20.48.61 cmd1=6e | eval temperature=(tonumber(cmd2, 16)/2)
```

#6 - 01/02/2016 09:13 PM - Luke Murphey

```
((category=5 subcategory=b) OR (category=3 subcategory=37)) (cmd1=6e OR cmd1=6b) modem_command_code=50 `get_command_info` | eval temperature=(tonumber(cmd2, 16)/2) | timechart avg(temperature) by from_device_name
```

#7 - 01/02/2016 10:00 PM - Luke Murphey

Temperature can be requested by the following command:

```
| insteoncommand cmd1=6a cmd2=00 device=2c.47.59
```

You can then evaluate the temperature with the following:

```
sourcetype=insteon_plm (to=2c.47.59 OR from=2c.47.59) | eval temperature=(tonumber(cmd2, 16)/2)
```

#8 - 01/02/2016 10:36 PM - Luke Murphey

<http://cache.insteon.com/developer/2441ZTHdev-112012-en.pdf>

<http://cache.insteon.com/developer/2441THdev-062012-en.pdf>

#9 - 02/01/2016 09:50 PM - Luke Murphey

- Blocks Feature #1004: Alert: temperature too high or too low added

#10 - 02/01/2016 10:35 PM - Luke Murphey

Some observations:

1. An extended command (`| insteoncommand device="20.48.61" command="thermostat_info"`) gets the data in an extended command response
 1. This appears to be the set-point data; not the temperature
2. A `cmd1=6a` to a wired thermostat will return the temperature or humidity in the `cmd2` field based on the `cmd2` of the request (`00` = temp, `20` = setpoint, `60` = humidity)
3. `cmd1=6a` commands seem to report the temperature and humidity on wired thermostats
4. External temperature can be seen in the `0x73` command with the `cmd2` containing the temperature

5. The docs indicate that 6E commands report temperature, 6F report humidity
6. A command request of 6e to the wired thermostat did not obtain the temperature
7. The Insteon app seems to get the data out of the ED 2E command

Questions:

1. Does the 6A command work on wireless thermostats?
 1. No
2. How can the extended command info be parsed for the temperature?
3. Can temperature reporting be setup? See "To set a device to get status reporting add a controller of device link with group 0xEF and set 0x2E to 0x08" in <http://cache.insteon.com/developer/2441THdev-062012-en.pdf>

#11 - 02/01/2016 11:48 PM - Luke Murphey

This shows the extended commands:

```
sourcetype=insteon_plm (from=33.dc.e1 OR from=20.48.61 OR from=2c.47.59) extended=1 | eval nice_time=strftime(_time, "%d/%m/%Y %I:%M:%S %p") | table nice_time from data cmd2
```

#12 - 02/02/2016 12:05 AM - Luke Murphey

Got a search that parse the extended data:

```
sourcetype=insteon_plm (from=33.dc.e1 OR from=20.48.61 OR from=2c.47.59) cmd1=2e extended=1 data=01* | eval nice_time=strftime(_time, "%d/%m/%Y %I:%M:%S %p") | eval set_point_cool=tonumber(substr(data,13, 2),16) | eval set_point_heat=tonumber(substr(data,23, 2),16) | eval humidity=tonumber(substr(data,15, 2),16) | eval temperature=((tonumber(substr(data,19,2),16) + 256*tonumber(substr(data,17,2),16))/10)*1.8 + 32 | table nice_time from_device_name temperature set_point_cool set_point_heat temperature humidity
```

#13 - 02/02/2016 03:15 AM - Luke Murphey

- Target version changed from 0.9 to 0.10

#14 - 02/02/2016 03:16 AM - Luke Murphey

- Blocks deleted (Feature #1004: Alert: temperature too high or too low)

#15 - 02/02/2016 03:17 AM - Luke Murphey

- Related to Feature #1004: Alert: temperature too high or too low added