

Description of the data from the Lan Controller V2.0

1. The data sent by HTTP POST from the Events Config after pressing the „Save Config“. POST /in_config.htm HTTP/1.1

Events Config									
INPUTS	OUTPUTS/ACTION								
HYSTERESIS	OUT0	OUT1	OUT2	OUT3	OUT4	OUT5	PWM	E-MAIL	SNMP TRAP
TEMP <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
VCC <input type="checkbox"/> 0.2	<input type="text" value="12.0"/> <input type="text" value="10.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="12.0"/> <input type="text" value="10.0"/> <input type="text" value="text"/>	<input type="text" value="12.0"/> <input type="text" value="10.0"/>
INP1 <input type="checkbox"/> 0.00	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="9.00"/> <input type="text" value="-9.00"/> <input type="text" value="text"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>
INP2 <input type="checkbox"/> 0.00	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="9.00"/> <input type="text" value="-9.00"/> <input type="text" value="text"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>
INP3 <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
INP4 <input type="checkbox"/> 0.00	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="9.00"/> <input type="text" value="-9.00"/> <input type="text" value="text"/>	<input type="text" value="9.00"/> <input type="text" value="-9.00"/>
INP5 <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
INP6 <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
INP7 <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
INP8 <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
INP9 <input type="checkbox"/> 0.0	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="0"/> Hz <input type="text" value="0.0"/> %	<input type="text" value="90.0"/> <input type="text" value="-90.0"/> <input type="text" value="text"/>	<input type="text" value="90.0"/> <input type="text" value="-90.0"/>
INP1D	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="0"/> <input type="checkbox"/> B Hz <input type="text" value="0.0"/> %	<input type="text" value="text1"/>	<input type="checkbox"/>
INP2D	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="255"/> <input type="checkbox"/> B	<input type="text" value="0"/> <input type="checkbox"/> B Hz <input type="text" value="0.0"/> %	<input type="text" value="text2"/>	<input type="checkbox"/>
INP3D	<input checked="" type="checkbox"/> <input type="text" value="251"/> <input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> <input type="text" value="252"/> <input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> <input type="text" value="253"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="254"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="1234"/> Hz <input type="text" value="56.0"/> % <input type="checkbox"/> B	<input type="text" value="text3"/>	<input type="checkbox"/>
INP4D	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="255"/> <input type="checkbox"/> B	<input type="checkbox"/> <input type="text" value="0"/> <input type="checkbox"/> B Hz <input type="text" value="0.0"/> %	<input type="text" value="text4"/>	<input type="checkbox"/>

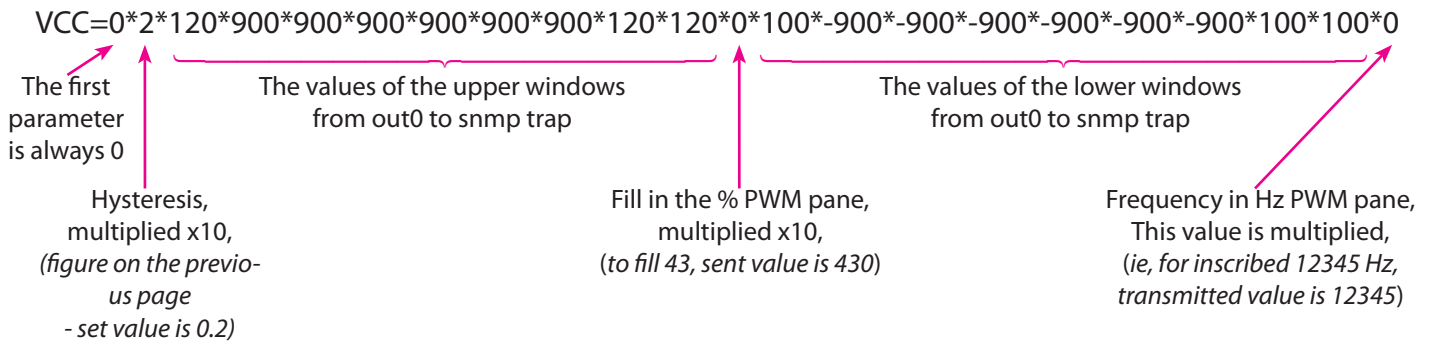
Save Config

All data are arriving as integers, so if the window takes the number to one decimal place eg 12.5 it sent is 125 (value multiplied by 10), as the window takes the number of two places (here INP1, INP2, INP4) decimal e.g. 6.43 it 643 is sent (the value multiplied by 100).

Variables are separated stamps „and“ (&), and there is among them any extra line breaks or similar, *(in this document are the characters the next line to have more clarity)*.

Variable TEM - contains data from windows in a row with TEMP (the settings for the temperature sensor on the board), variable TMA also applies to the TEMP and contains the contents sent by the email. Similarly, for all inputs, VCC is the window to the VCC, the contents of the VMA is the relayed via e-mail to VCC.

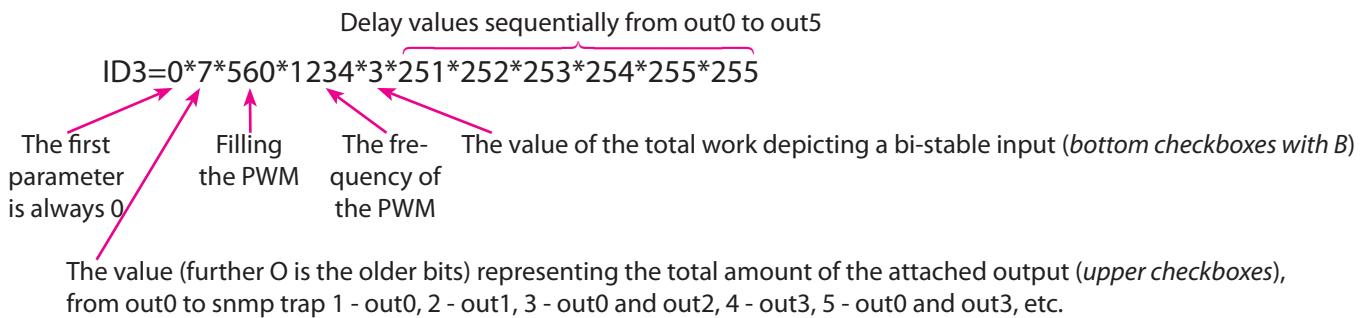
We will now describe in more detail a variable such as VCC, *(the individual values of the windows are separated by a ,* mark)*.



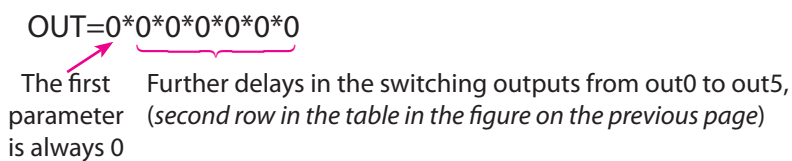
VMA=text – one parameter, the contents of the e-mail address

All analog inputs have the same system parameters.

For digital inputs is a little different because there are other parameters, and it looks like this: *(description of the parameters in INP3D)*.



I1M=text1 - one parameter, the contents of the e-mail address



TEM=0*0*900*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&TMA=text
&VCC=0*2*120*900*900*900*900*900*900*120*120*0*100*-900*-900*-900*-900*-900*-900*100*100*0
&VMA=text
&IA1=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM1=text
&IA2=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM2=text
&IA3=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM3=text
&IA4=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM4=text
&IA5=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM5=text
&IA6=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM6=text
&IA7=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM7=text
&IA8=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM8=text
&IA9=0*0*900*900*900*900*900*900*900*900*0*-900*-900*-900*-900*-900*-900*-900*-900*0
&IM9=text
&ID1=0*0*0*0*255*255*255*255*255*255
&I1M=text1
&ID2=0*0*0*0*255*255*255*255*255*255
&I2M=text2
&ID3=0*7*560*1234*3*251*252*253*254*255*255
&I3M=text3
&ID4=0*0*0*0*255*255*255*255*255*255
&I4M=text4
&OUT=0*0*0*0*0*0*0

2. The data sent by the http POST from the Scheduler by pressing „Save Config“. POST /index.htm HTTP/1.1

Scheduler

DATE and TIME: 1970-01-01;03:50:33

Enable S0
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S1
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S2
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S3
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S4
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S5
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S6
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S7
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S8
 ON| OFF| RESET= Auto switch if INP1D 0/1

Enable S9
 ON| OFF| RESET= Auto switch if INP1D 0/1

$$S0=0*22*14*1*1*45085$$

The first parameter is always 0

The total value representing configurations:

- 0 – ON
- 1 – OFF
- 2 – RESET
- 4 – Enable
- 8 – auto switch
- 16 – 0/1

The value of the time window reset

Output number out

Day of the week:

- 1 – Monday
- 2 – Tuesday
- 4 – Wednesday
- 8 – Thursday
- 16 – Friday
- 32 – Saturday
- 64 – Sunday
- 128 – all day

Time in seconds, for example 01:02:05 is a:

$$(1 \times 3600) + (2 \times 60) + 5$$

$$S0=0*22*14*1*1*45085$$

$$\&S1=0*1*10*0*1*0$$

$$\&S2=0*0*10*0*1*0$$

$$\&S3=0*0*10*0*1*0$$

$$\&S4=0*0*10*0*1*0$$

$$\&S5=0*0*10*0*1*0$$

$$\&S6=0*0*10*0*1*0$$

$$\&S7=0*0*10*0*1*0$$

$$\&S8=0*0*10*0*1*0$$

$$\&S9=0*0*10*0*1*0$$

3. Data sent by the http GET from the **Control Panel** by pressing a button or change the value of the window.

This is the example of sending GET /ind.cgi?r0=1 HTTP/1.1.

Description of variables:

ind.cgi?r0=x – sets the value of x in the reset time for out0

ind.cgi?r1=x – sets the value of x in the reset time for out1

ind.cgi?r2=x – sets the value of x in the reset time for out2

ind.cgi?r3=x – sets the value of x in the reset time for out3

ind.cgi?r4=x – sets the value of x in the reset time for out4

ind.cgi?r5=x – sets the value of x in the reset time for out5

ind.cgi?r6=x – sets the value of x in the description of the output out0

ind.cgi?r7=x – sets the value of x in the description of the output out1

ind.cgi?r8=x – sets the value of x in the description of the output out2

ind.cgi?r9=x – sets the value of x in the description of the output out3

ind.cgi?r10=x – sets the value of x in the description of the output out4

ind.cgi?r11=x – sets the value of x in the description of the output out5

ind.cgi?ae=x – x value of the total state checkboxes „Auto switch out“, 1-out0 , 2-out1, 4-out2, 8-out3, 16-out4, 32-out5

ind.cgi?a0=x – sets the value of x in the upper window for out0 the „auto switch out“

ind.cgi?a1=x – sets the value of x in the upper window for out1 the „auto switch out“

etc.

ind.cgi?a6=x – sets the value of x in the bottom window for out0 the „auto switch out“

etc.

ind.cgi?a11=x – sets the value of x in the bottom window for out5 the „auto switch out“

ind.cgi?pwmf=x – sets the value of x in the box PWM frequency

ind.cgi?pwmd=x – sets the value of x in the window for the fulfillment of PWM value multiplied by 10

ind.cgi?pwm=x – for x = 1 enables the PWM generator, for x = 0 disables the PWM generator

ind.cgi?d0=x – sets the value of x in the description window of the sensor DS18B20 at the entrance InP6

etc.

ind.cgi?d5=x – sets the value of x in the description window of the sensor DS18B20 at the entrance INP11

ind.cgi?d6=x – sets the value of x in the description window of digital input INP1D

etc.

ind.cgi?d9=x – sets the value of x in the description window of digital input INP4D

ind.cgi?db=x – x the total checkboxes „Negation“ at the digital inputs 1-INP1D, 2-INP2D, 4-INP3D, 8-INP4D

ind.cgi?i2=x – sets the value of x in the calibration window for INP1, the value is multiplied x100

ind.cgi?i3=x – sets the value of x in the calibration window for INP2, the value is multiplied x100

ind.cgi?i4=x – sets the value of x in the calibration window for INP3, the value is multiplied x10

ind.cgi?i5=x – sets the value of x in the calibration window for INP4, the value is multiplied x100

ind.cgi?i6=x – sets the value of x in the calibration window for INP5, the value is multiplied x10

ind.cgi?i7=x – sets the value of x in the window multiplier of 3.6 V x for INP1, the value is multiplied x10

ind.cgi?i8=x – sets the value of x in the window-type current sensor for INP4 ACS, the value is multiplied x10

ind.cgi?i9=x – sets the value of x in the window multiplier of 3.6 V x for INP5, the value is multiplied x10

ind.cgi?kw=x – for x=1 enables measurement of the power P x T, for x=0 disables the power measurement, for x=3 turns off power measurement and resets accrued power to 0.

ind.cgi?kw2=x – for x=1 enables the counting of pulses for INP4D, for x=0 disables the pulse counting, for x=3 off pulse counting and resets indicate to 0.

ind.cgi?mm=x – sets the value of x in the description window units at INP4D

ind.cgi?mn=x – sets the value of x in the window, the amount of impulses at INP4D

ind.cgi?mh=x – sets the value of x in the window, the number of pulses / unit at INP4D

outs.cgi?out=0 – change status for opposite output out0

outs.cgi?out=1 – change status for opposite output out1

outs.cgi?out=2 – change status for opposite output out2

outs.cgi?out=3 – change status for opposite output out3

outs.cgi?out=4 – change status for opposite output out4

outs.cgi?out=5 – change status for opposite output out5

outs.cgi?out=015 – change status for opposite outputs out0,out1,out5

outs.cgi?out0=0 – activates the output out0

outs.cgi?out0=1 – disables the output out0

outs.cgi?out1=0 – activates the output out1

outs.cgi?out2=0 – disables the output out2

4. The data sent by the http POST from the **Network Configuration** screen when you press any of the buttons.

„**Save**“ button in the E-mail: POST /index.htm HTTP/1.1.

```
tserw=sntp.wp.pl
&port=25
&user=user
&pass=password
&to=user@gmail.com
&from=user@wp.pl
&sub=Lan Resetarter Info
```

Button „**Test e-mail send**“: POST /email.cgi HTTP/1.1

```
test
```

Button „**Save and reboot**“: POST /config.htm HTTP/1.1

when disabled DHCP:

```
mac=00%3A04%3AA3%3AD2%3A08%3A07
&host=LAN_SENSOR_MONI
&ip=192.168.1.100
&gw=192.168.1.1
&sub=255.255.255.0
&dns1=8.8.8.8
&dns2=0.0.0.0
&www=80
```

When enabled DHCP:

```
mac=00%3A04%3AA3%3AD2%3A08%3A08
&host=LAN_SENSOR_MONI
&dhcp=1
&www=80
```

„**Save**“ button for Acces, NTP, SNMP: POST /config.htm HTTP/1.1

```
user=admin
&pass=admin
&N1=pl.pool.ntp.org    – serwer NTP
&N2=123                – port NTP
&N3=10                 – time interwal NTP
&N4=2                  – time zone NTP
&rcm0=public           – read comm1 for SNMP
&rcm1=read             – read comm2 for SNMP
&wcm0=private          – write comm1 for SNMP
&wcm1=write            – write comm2 for SNMP
&T1=192.168.1.1       – trap reciver IP
&T2=zzz                – trap comm
&T0=false              – trap enable true or false
&aut=true              – password authentication true or false
```

„**Save**“ button in HTTP client settings“: POST /index.htm HTTP/1.1

```
psen=server.com        – server address
&psep=80                – server port
&pser=GET /update?     – Remote URL the first 64 characters
&pseh=                  – Remote URL the second 64 characters if the string greater than 64 characters
&pset=10                – time
&psec=false            – inclusion of autosend true or false
```

„save“ button at the bottom of the page: POST /index.htm HTTP/1.1

ntp=false	– for false time set manual for true using NTP
&time=7234	– time in seconds to set manual
&tre=3	– the total value for AUTO SEND TRAP settings, 1- anable, 2 TEMP, 4-VCC, 8- INP1, etc.
&trt=6	– time interval for AUTO SEND TRAP
&trb=32	– the total value for Relay after strat, 1- out0, 2- out1, 4-out2, 8-out3, 16-out4, 32-out5
&rsc=0	– total value for the setting Remote Control, 1- enable, 2-out0 INP1D, 4-out1 INP1D, 8-out2 INP1D, 16-out3 INP1D, 32-out4 INP1D, 64-out0 INP2D, 128-out1 INP2D, 256-out2 INP2D, 512-out3 INP2D, 1024-out4 INP2D, 2048- client
&rsp=30000	– serwer port remote control
&rip=192.168.1.10	– IP remote control
&rscp=30000	– client port remote control
&rps=password	

All transmitted variables can be observed by capturing packets program like wireshark.