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# Info

Host command for capture:

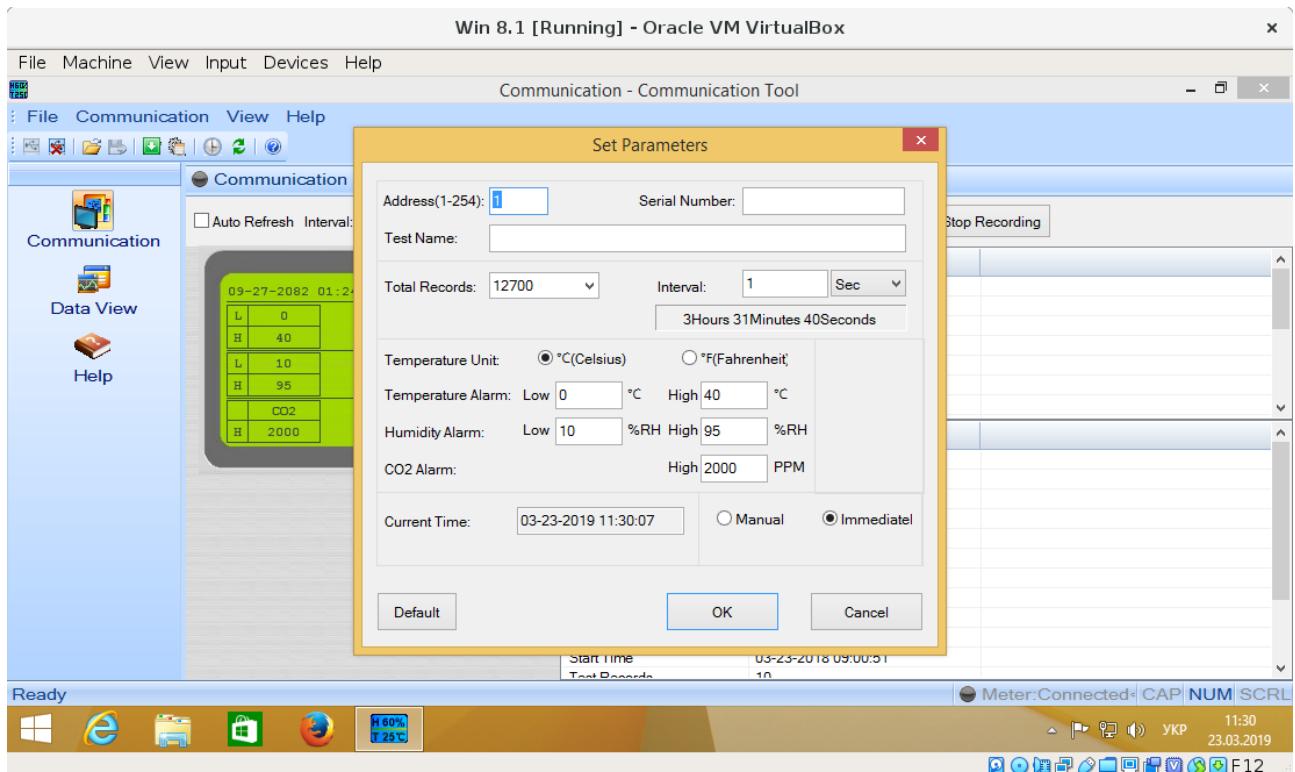
```
cat /sys/kernel/debug/usb/usbmon/1u
```

lsusb info

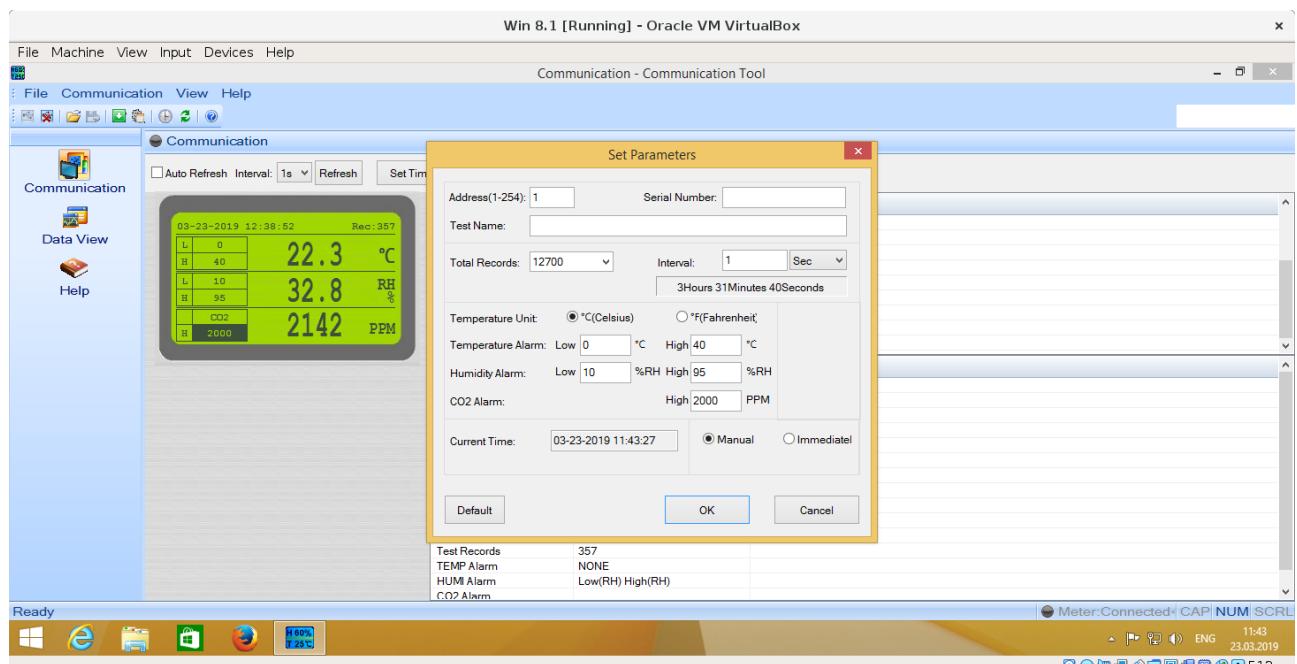
```
Bus 001 Device 011: ID 10c4:82cd Cygnal Integrated Products, Inc.
Device Descriptor:
  bLength          18
  bDescriptorType   1
  bcdUSB         1.10
  bDeviceClass      0 (Defined at Interface level)
  bDeviceSubClass    0
  bDeviceProtocol     0
  bMaxPacketSize0     64
  idVendor        0x10c4 Cygnal Integrated Products, Inc.
  idProduct        0x82cd
  bcdDevice        0.00
  iManufacturer      1 SLAB
  iProduct          2 HT2000
  iSerial            0
  bNumConfigurations  1
Configuration Descriptor:
  bLength          9
  bDescriptorType    2
  wTotalLength       41
  bNumInterfaces      1
  bConfigurationValue  1
  iConfiguration      0
  bmAttributes        0x80
    (Bus Powered)
  MaxPower          64mA
Interface Descriptor:
  bLength          9
  bDescriptorType    4
  bInterfaceNumber    0
  bAlternateSetting    0
  bNumEndpoints       2
  bInterfaceClass      3 Human Interface Device
  bInterfaceSubClass    0 No Subclass
  bInterfaceProtocol    0 None
  iInterface          0
Warning: Descriptor too short
  HID Device Descriptor:
    bLength          9
    bDescriptorType    33
    bcdHID         1.01
    bCountryCode      0 Not supported
    bNumDescriptors     2
    bDescriptorType    34 Report
    wDescriptorLength    128
    bDescriptorType    214 (null)
    wDescriptorLength  15834
  Report Descriptors:
    ** UNAVAILABLE **
Endpoint Descriptor:
  bLength          7
  bDescriptorType    5
  bEndpointAddress 0x81 EP 1 IN
```

bmAttributes	3	
Transfer Type		Interrupt
Synch Type		None
Usage Type		Data
wMaxPacketSize	0x0040	1x 64 bytes
bInterval	10	
Endpoint Descriptor:		
bLength	7	
bDescriptorType	5	
bEndpointAddress	0x01	EP 1 OUT
bmAttributes	3	
Transfer Type		Interrupt
Synch Type		None
Usage Type		Data
wMaxPacketSize	0x0040	1x 64 bytes
bInterval	10	
Device Status:	0x0000	
(Bus Powered)		

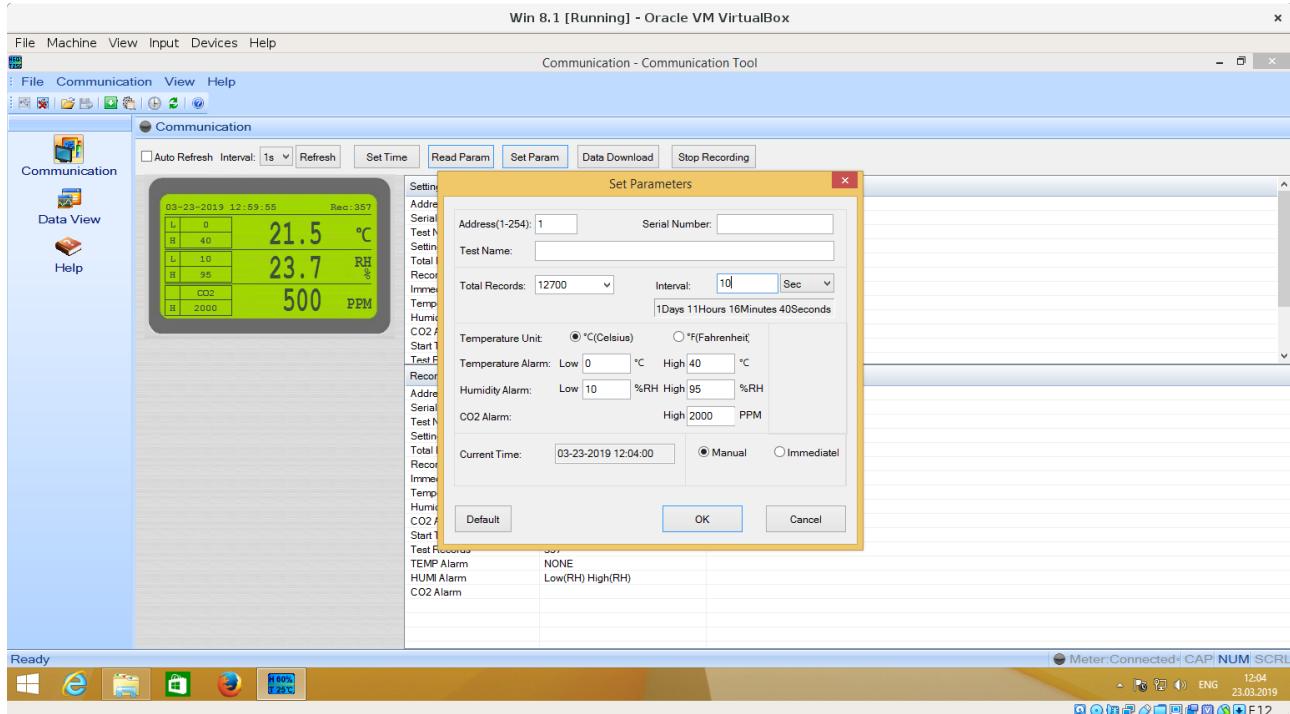
## Set param:



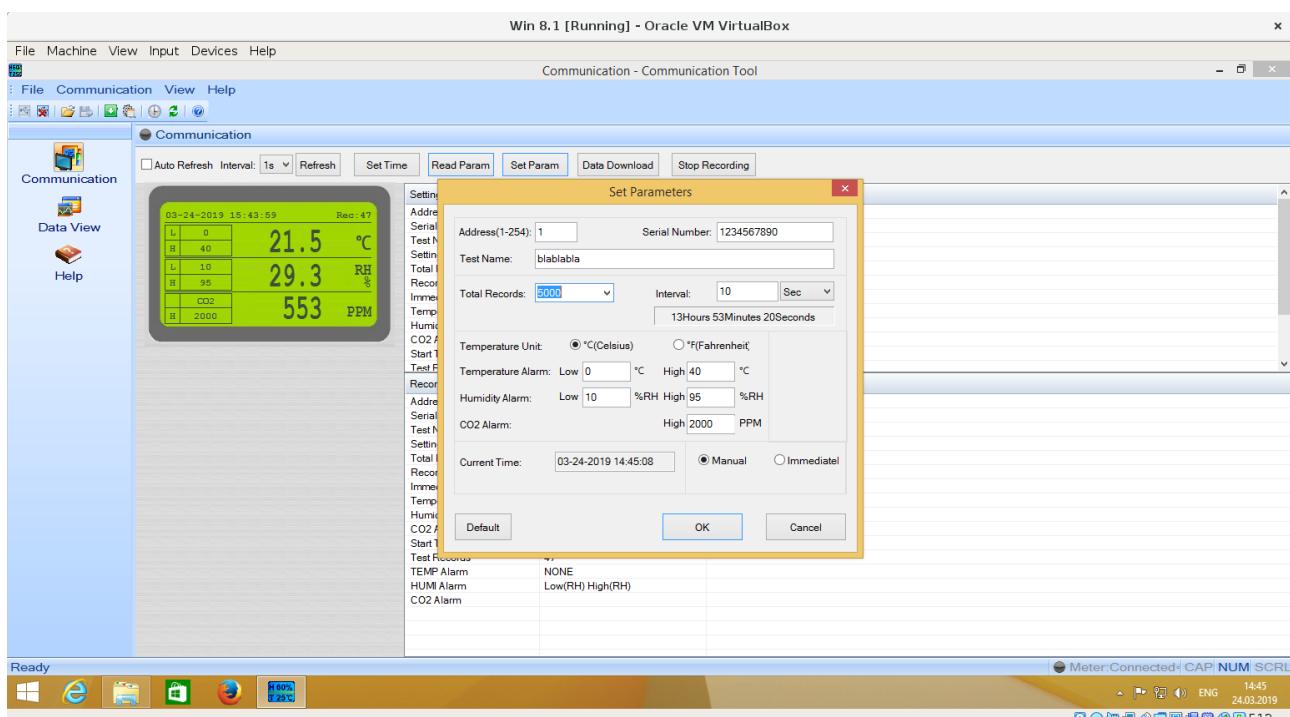
```
fffff92c147628b40 2318059230 S Io:1:011:1 -115:8 61 = 02000100 00000000 00000000  
00000000 00000000 00000000 00000000  
fffff92c147628b40 2318063356 C Io:1:011:1 0:8 61 >  
fffff92c1470f93c0 2318063570 S Io:1:011:1 -115:8 61 = 02010320 006403b6 005c95fc  
a10123a6 b45a0000 000007d0 00000000 00000020  
fffff92c1470f93c0 2318071361 C Io:1:011:1 0:8 61 >
```



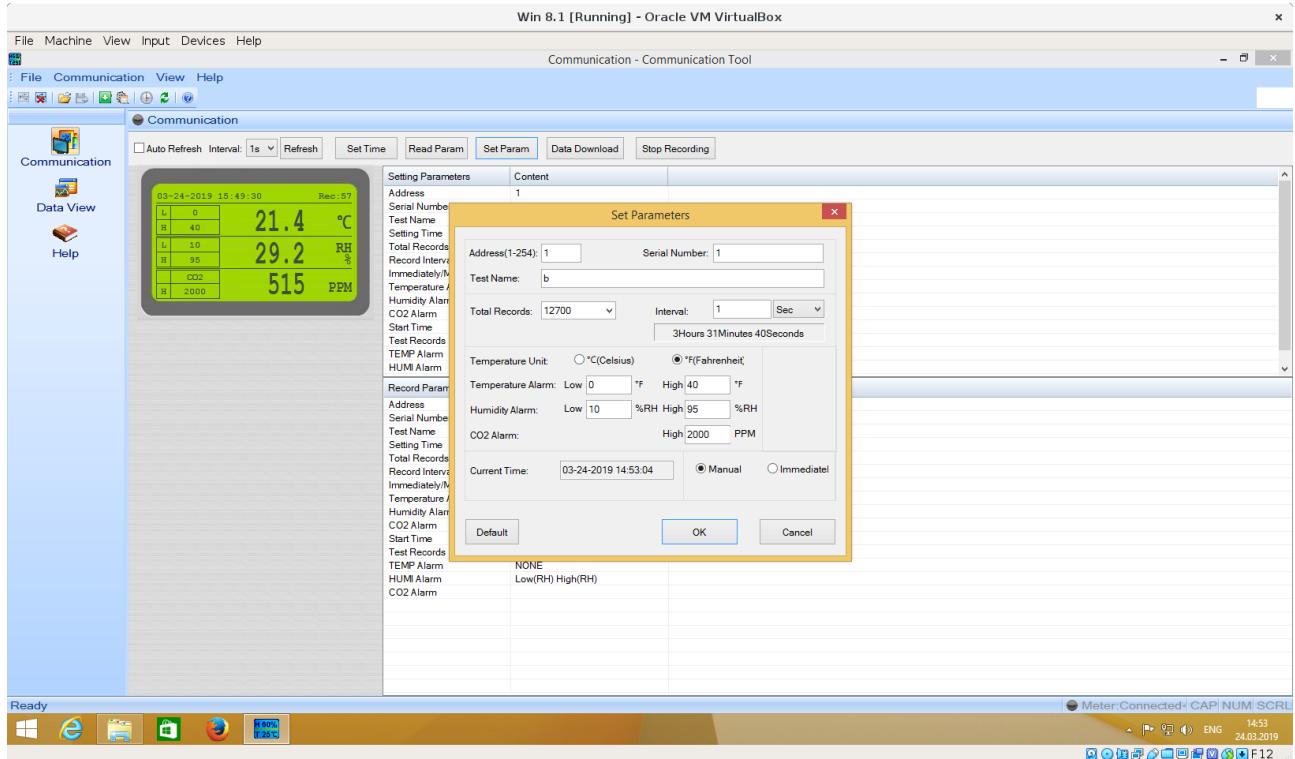
fffff92bf6c219540 3115374475 S Io:1:011:1 -115:8 61 = 02000100 00000000 00000000  
 00000000 00000000 00000000 00000000 00000000  
 fffff92bf6c219540 3115376109 C Io:1:011:1 0:8 61 >  
 fffff92bf6c219540 3115376304 S Io:1:011:1 -115:8 61 = 02010320 006403b6 005c95ff  
 c000a1fc 955c0000 000007d0 00000000 00000020  
 fffff92bf6c219540 3115384102 C Io:1:011:1 0:8 61 >



fffff92c1474f36c0 261655206 S Io:1:011:1 -115:8 61 = 02000100 00000000 00000000  
 00000000 00000000 00000000 00000000 00000000  
 fffff92c1474f36c0 261656750 C Io:1:011:1 0:8 61 >  
 fffff92bf77bcbe40 261656875 S Io:1:011:1 -115:8 61 = 02010320 006403b6 005c9604  
 9900c0ff 955c0000 000007d0 00000000 00000020  
 fffff92bf77bcbe40 261664731 C Io:1:011:1 0:8 61 >

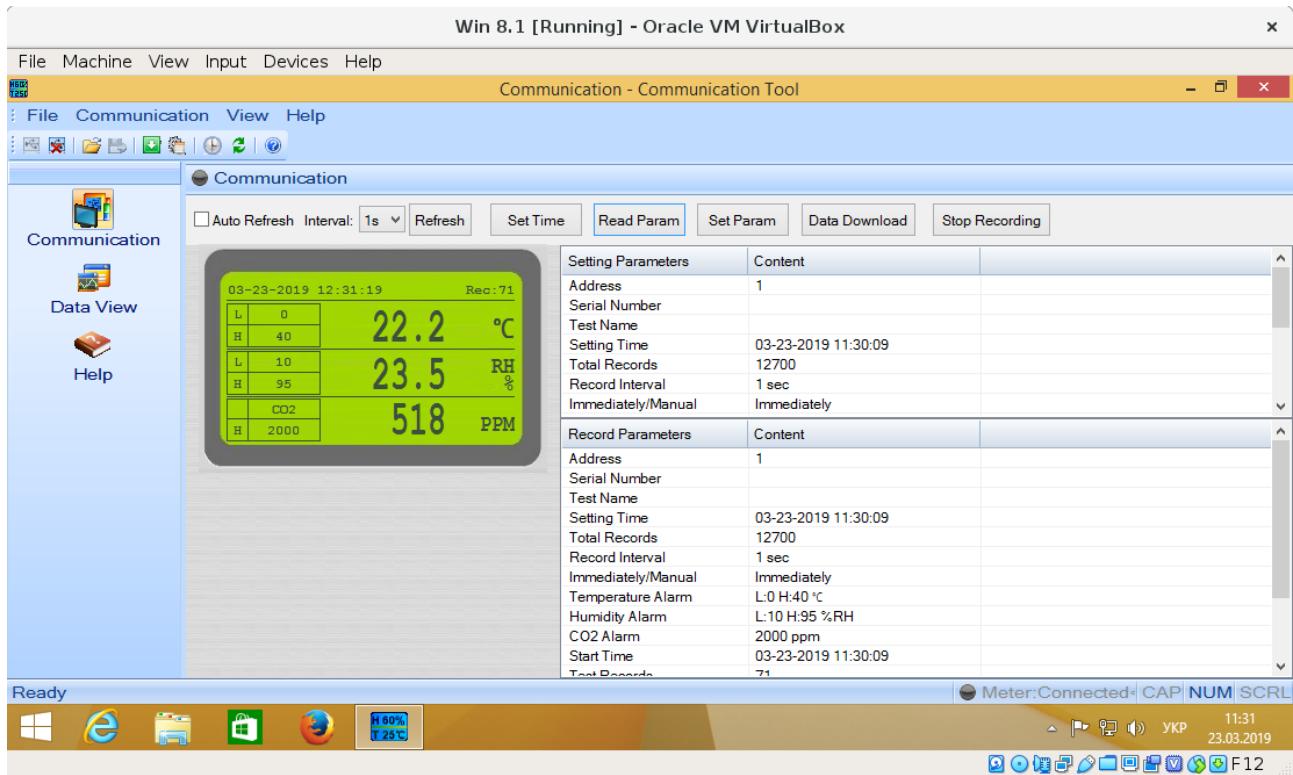


fffff951d87c1bf00 2202889345 S Io:1:005:1 -115:8 61 = 02000131 32333435 36373839  
 3062006c 00610062 006c0061 0062006c 00610000  
 fffff951d87c1bf00 2202893871 C Io:1:005:1 0:8 61 >  
 fffff951c21bfa780 2202894110 S Io:1:005:1 -115:8 61 = 02010320 006403b6 005c977c  
 4a009904 965c0000 000007d0 00000000 00000020  
 fffff951c21bfa780 2202901869 C Io:1:005:1 0:8 61 >

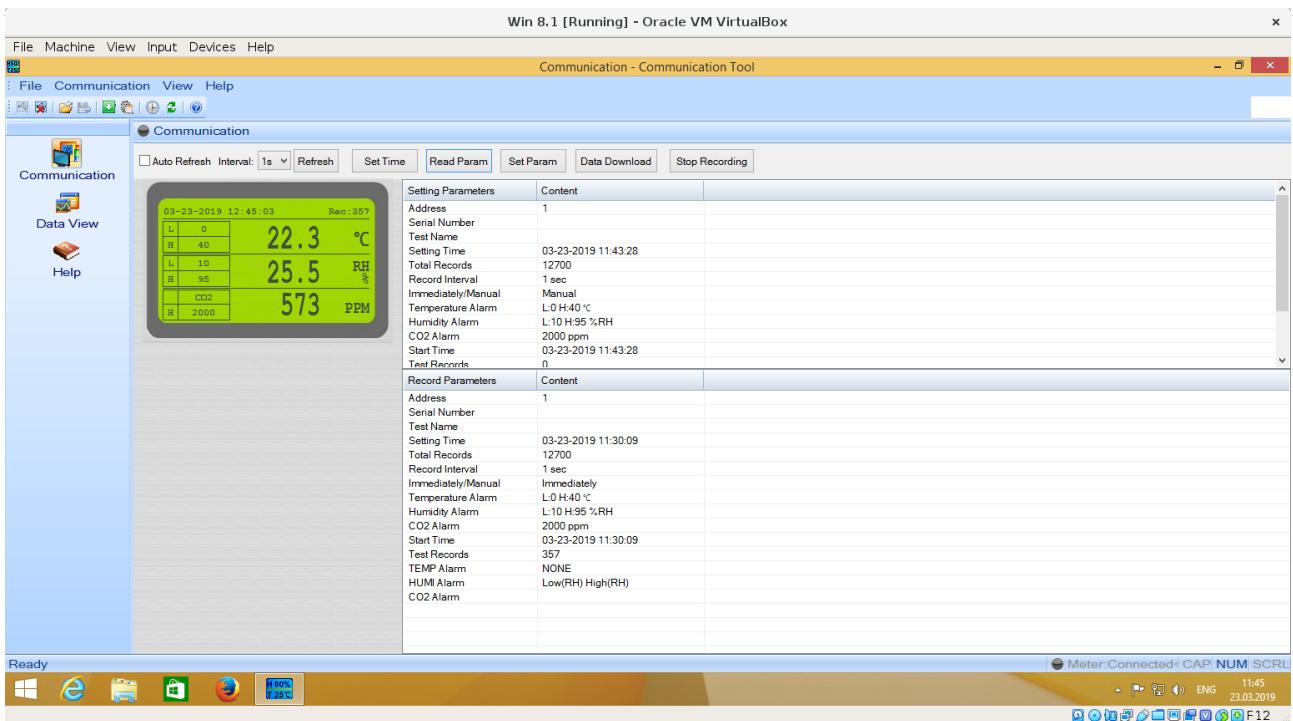


fffff951bc924a6c0 2577567374 S Io:1:005:1 -115:8 61 = 02000131 00333435 36373839  
 30620000 00610062 006c0061 0062006c 00610000  
 fffff951bc924a6c0 2577574136 C Io:1:005:1 0:8 61 >  
 fffff951c22582d80 2577574374 S Io:1:005:1 -115:8 61 = 020101bc 006403b6 005c977d  
 d4004a7c 975c0000 000007d0 00000000 00000020  
 fffff951c22582d80 2577582134 C Io:1:005:1 0:8 61 >

# Read Settings:



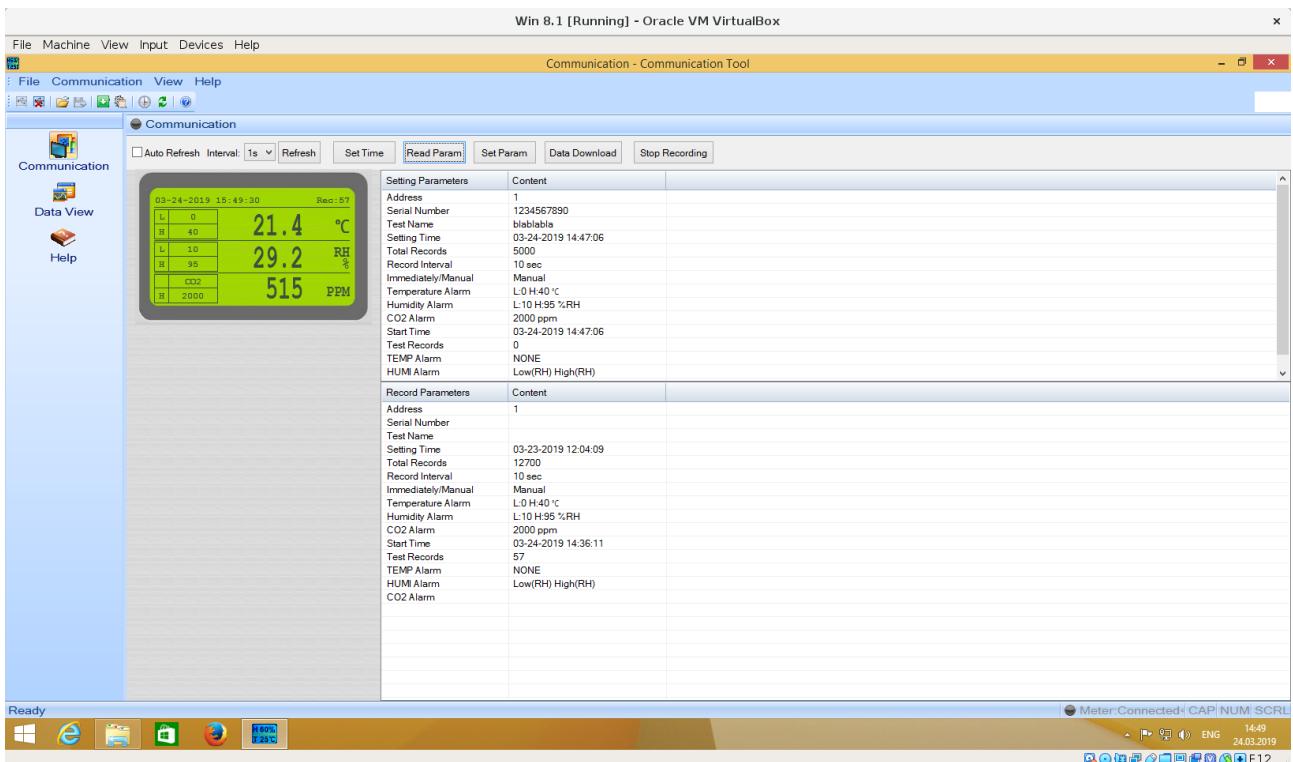
```
fffff92c146f57a80 2388371372 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92c146f57a80 2388371847 C Ci:1:011:0 0 32 = 055c9627 17004702 6e00eb01
90032000 6403b6b0 0301bd12 02060000 07d0059d
fffff92c12352dc00 2388373106 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c12352dc00 2388374161 C Ci:1:011:0 0 61 = 06000100 00000000 00000000
00000000 00000000 00000000 00000000 00000000
fffff92c12a2fc6c0 2388374253 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c12a2fc6c0 2388375113 C Ci:1:011:0 0 61 = 06010320 006403b6 005c95fc
a1015c95 fca10000 000007d0 00000000 00000002
fffff92c14b3386c0 2388375829 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c14b3386c0 2388376906 C Ci:1:011:0 0 61 = 07000100 00000000 00000000
00000000 00000000 00000000 00000000 00000000
fffff92c146f57e40 2388377086 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c146f57e40 2388377944 C Ci:1:011:0 0 61 = 07010320 006403b6 005c95fc
a1015c95 fca10047 000007d0 00000000 00000002
```



```

fffff92bf81b83300 3210500049 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92bf81b83300 3210500517 C Ci:1:011:0 0 32 = 055c962a 4f016502 6f00ff01
90032000 6403b6b0 0300ee02 023d0000 07d0026e
fffff92c147235a80 3210502389 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c147235a80 3210503460 C Ci:1:011:0 0 61 = 06000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff92c148b176c0 3210503578 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c148b176c0 3210504455 C Ci:1:011:0 0 61 = 06010320 006403b6 005c95ff
c0005c95 ffc00000 000007d0 00000000 00000002
fffff92c1482193c0 3210505293 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c1482193c0 3210506372 C Ci:1:011:0 0 61 = 07000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff92c148a7cc00 3210506603 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c148a7cc00 3210507457 C Ci:1:011:0 0 61 = 07010320 006403b6 005c95fc
a1015c95 fca10165 000007d0 00000000 00000002

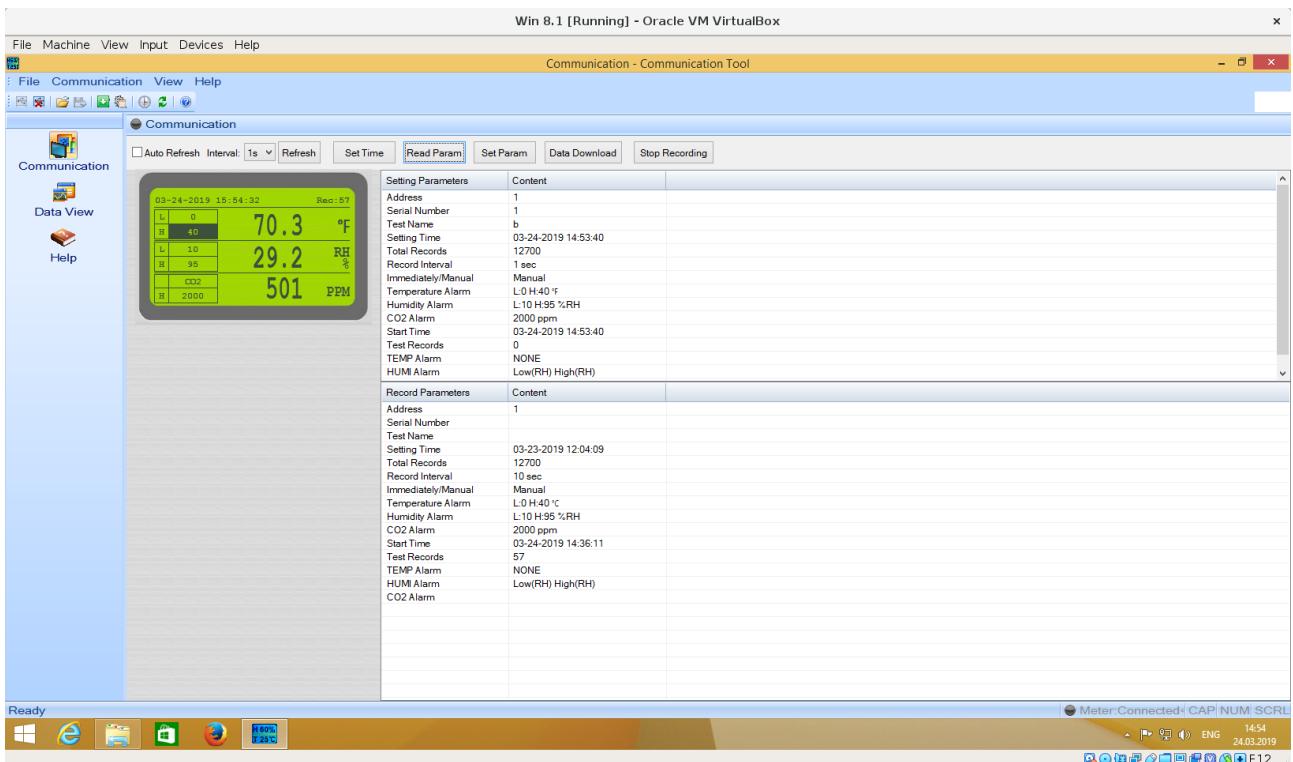
```



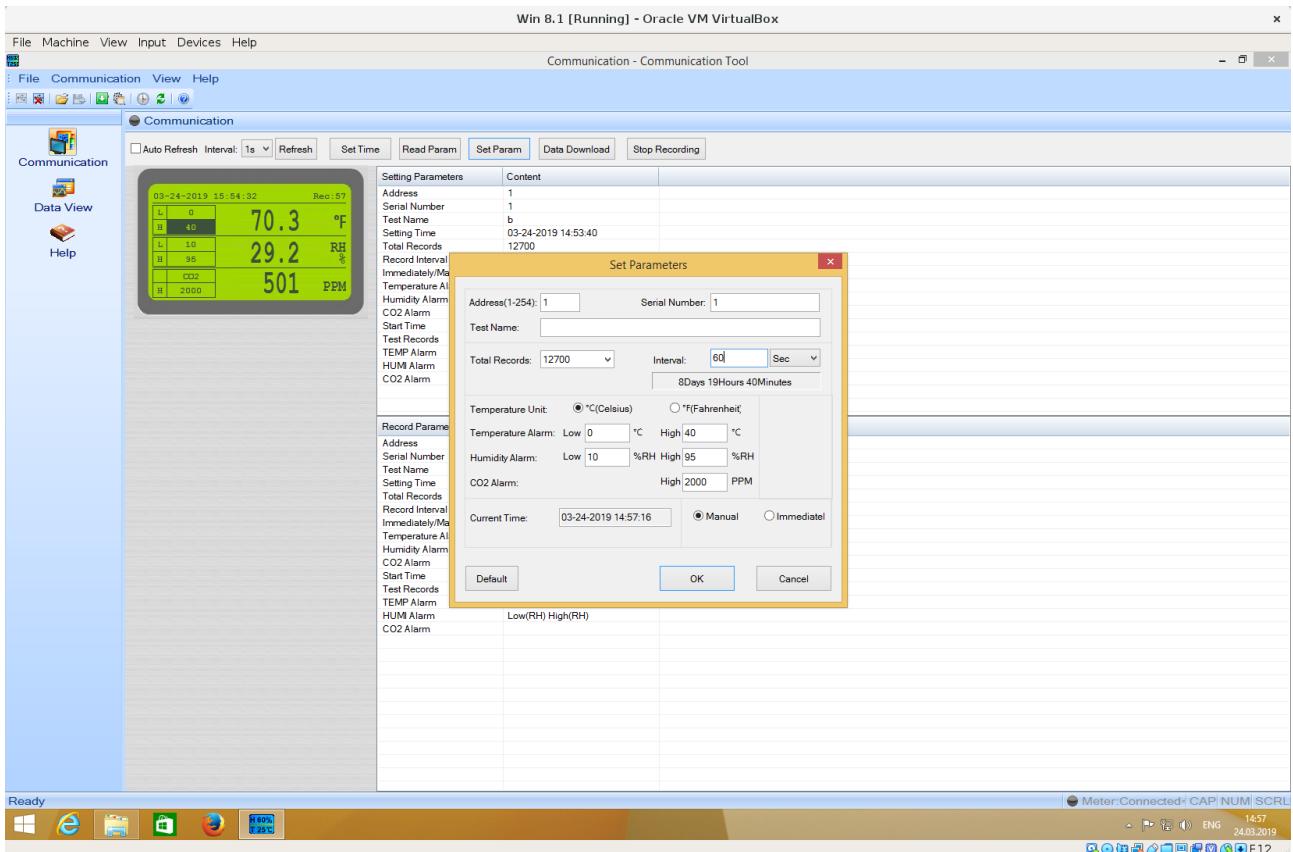
```

fffff951c7cd7cd80 2347176989 S Ci:1:005:0 s a1 01 0105 0000 003d 61 <
fffff951c7cd7cd80 2347177462 C Ci:1:005:0 0 32 = 055c97a7 0a003902 66012401
90032000 6403b6b0 0300046f 02030000 07d0fe22
fffff951b801dff00 2347178639 S Ci:1:005:0 s a1 01 0106 0000 003d 61 <
fffff951b801dff00 2347179708 C Ci:1:005:0 0 61 = 06000131 32333435 36373839
3062006c 00610062 006c0061 0062006c 00610000
fffff951c7cd7ccc0 2347179938 S Ci:1:005:0 s a1 01 0106 0000 003d 61 <
fffff951c7cd7ccc0 2347180783 C Ci:1:005:0 0 61 = 06010320 006403b6 005c977c
4a005c97 7c4a0000 000007d0 00000000 00000002
fffff951cd2f04780 2347181596 S Ci:1:005:0 s a1 01 0107 0000 003d 61 <
fffff951cd2f04780 2347182666 C Ci:1:005:0 0 61 = 07000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff951c7cd7ccc0 2347182835 S Ci:1:005:0 s a1 01 0107 0000 003d 61 <
fffff951c7cd7ccc0 2347183699 C Ci:1:005:0 0 61 = 07010320 006403b6 005c9604
99005c97 79bb0039 000007d0 00000000 00000002

```



fffff951cd2f049c0 2629647451 S Ci:1:005:0 s a1 01 0105 0000 003d 61 <  
 ffff951cd2f049c0 2629647917 C Ci:1:005:0 0 32 = 055c97a8 38003902 65012400  
 de01bc00 6403b6b1 030007d0 01f50000 07d00002  
 ffff951ad2d6f9c0 2629649223 S Ci:1:005:0 s a1 01 0106 0000 003d 61 <  
 ffff951ad2d6f9c0 2629650301 C Ci:1:005:0 0 61 = 06000131 00333435 36373839  
 30620000 00610062 006c0061 0062006c 00610000  
 ffff951d8801bd80 2629650473 S Ci:1:005:0 s a1 01 0106 0000 003d 61 <  
 ffff951d8801bd80 2629651339 C Ci:1:005:0 0 61 = 060101bc 006403b6 005c977d  
 d4005c97 7dd40000 000007d0 00000000 00000002  
 ffff951ad2d6f900 2629652130 S Ci:1:005:0 s a1 01 0107 0000 003d 61 <  
 ffff951ad2d6f900 2629653215 C Ci:1:005:0 0 61 = 07000100 00000000 00000000  
 00000000 00000000 00000000 00000000  
 ffff951d85b9cc00 2629653410 S Ci:1:005:0 s a1 01 0107 0000 003d 61 <  
 ffff951d85b9cc00 2629654270 C Ci:1:005:0 0 61 = 07010320 006403b6 005c9604  
 99005c97 79bb0039 000007d0 00000000 00000002

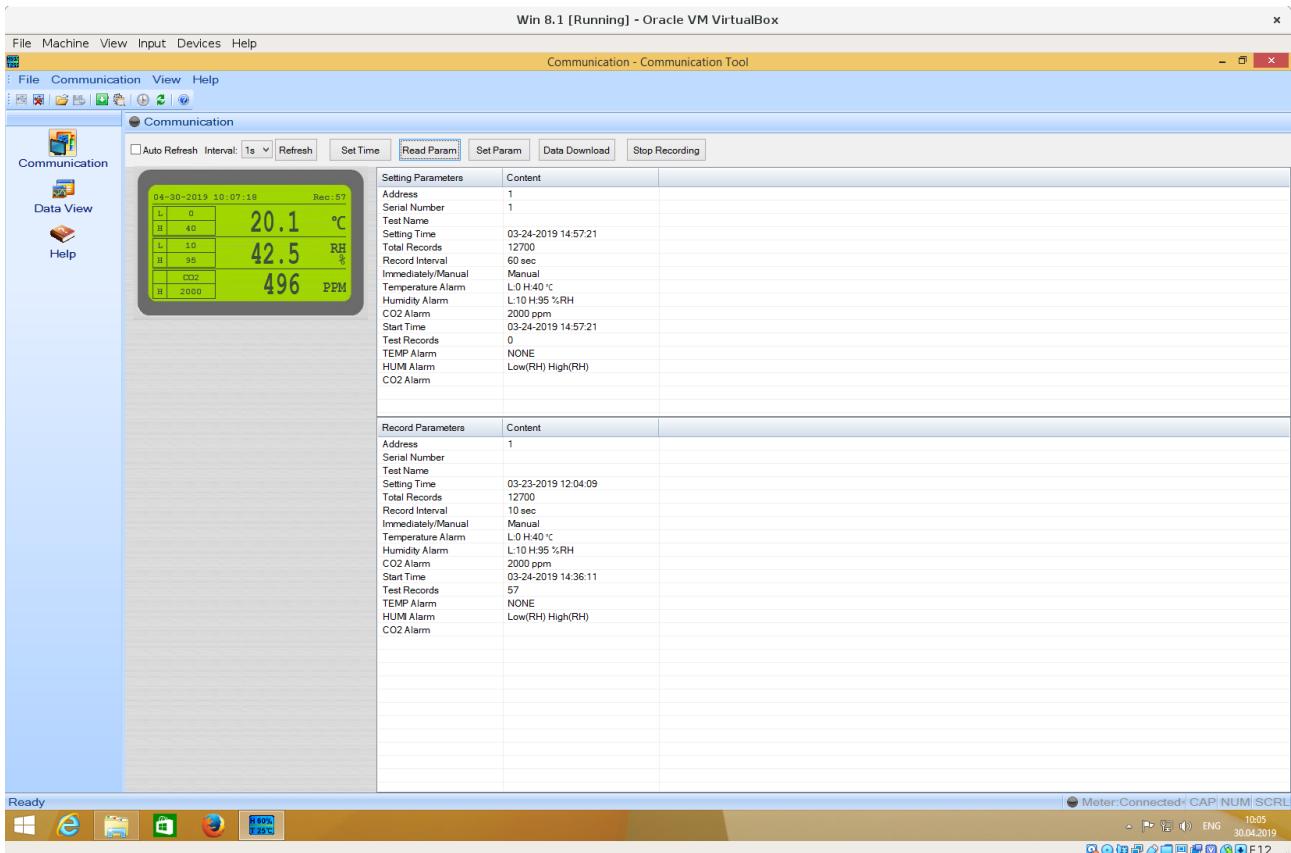


```
fffff951b8b6250c0 2798066211 S Io:1:005:1 -115:8 61 = 02000131 00333435 36373839
30000000 00610062 006c0061 0062006c 00610000
fffff951b8b6250c0 2798070308 C Io:1:005:1 0:8 61 >
fffff951a962a5840 2798070498 S Io:1:005:1 -115:8 61 = 02010320 006403b6 005c977e
b100d47d 975c0000 000007d0 00000000 00000020
fffff951a962a5840 2798078311 C Io:1:005:1 0:8 61 >
```

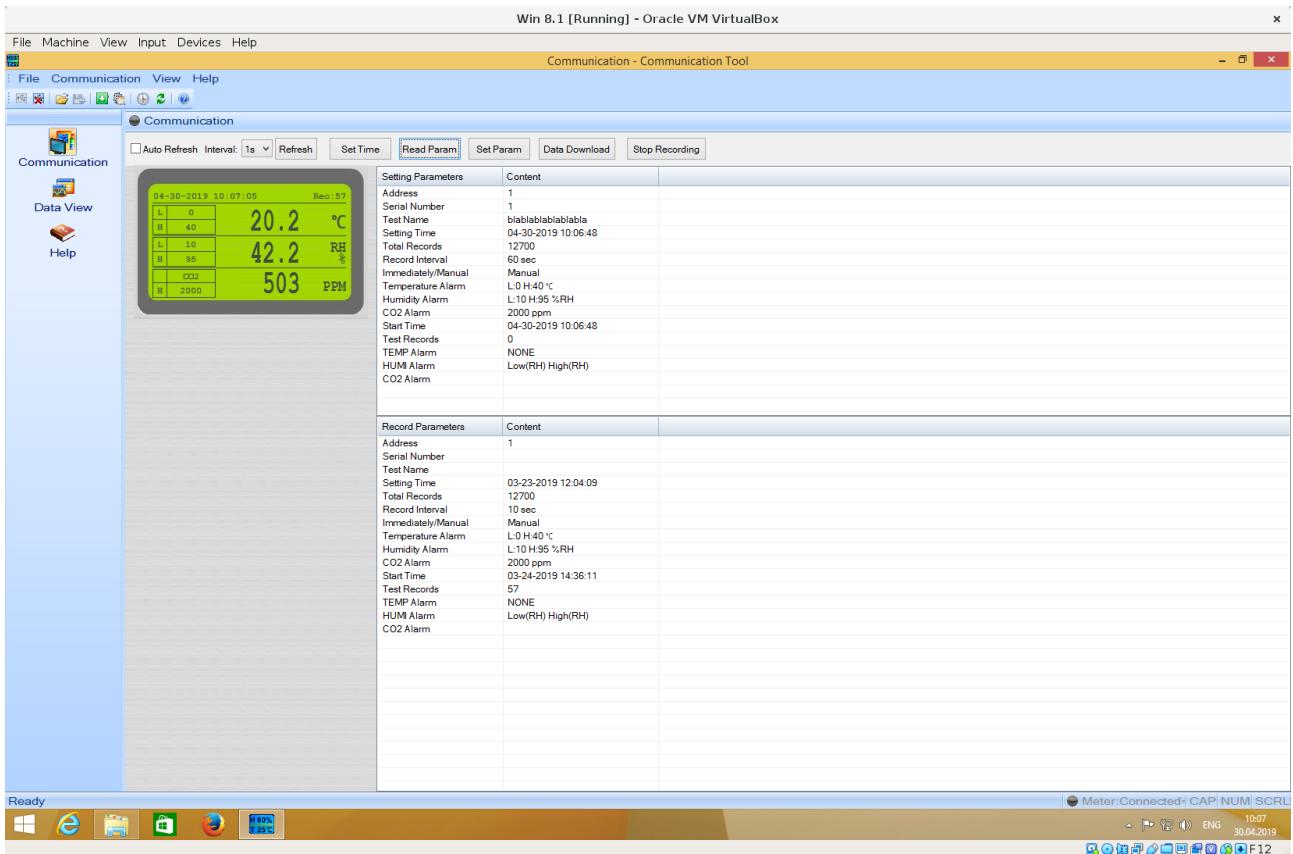
## Partial parsing

```
fmt = '>BBB10s30s18s'
fmt_names = ['cmd_id',
             'packet_id',
             'address',
             'serial',
             'test_name',
             'unknown']

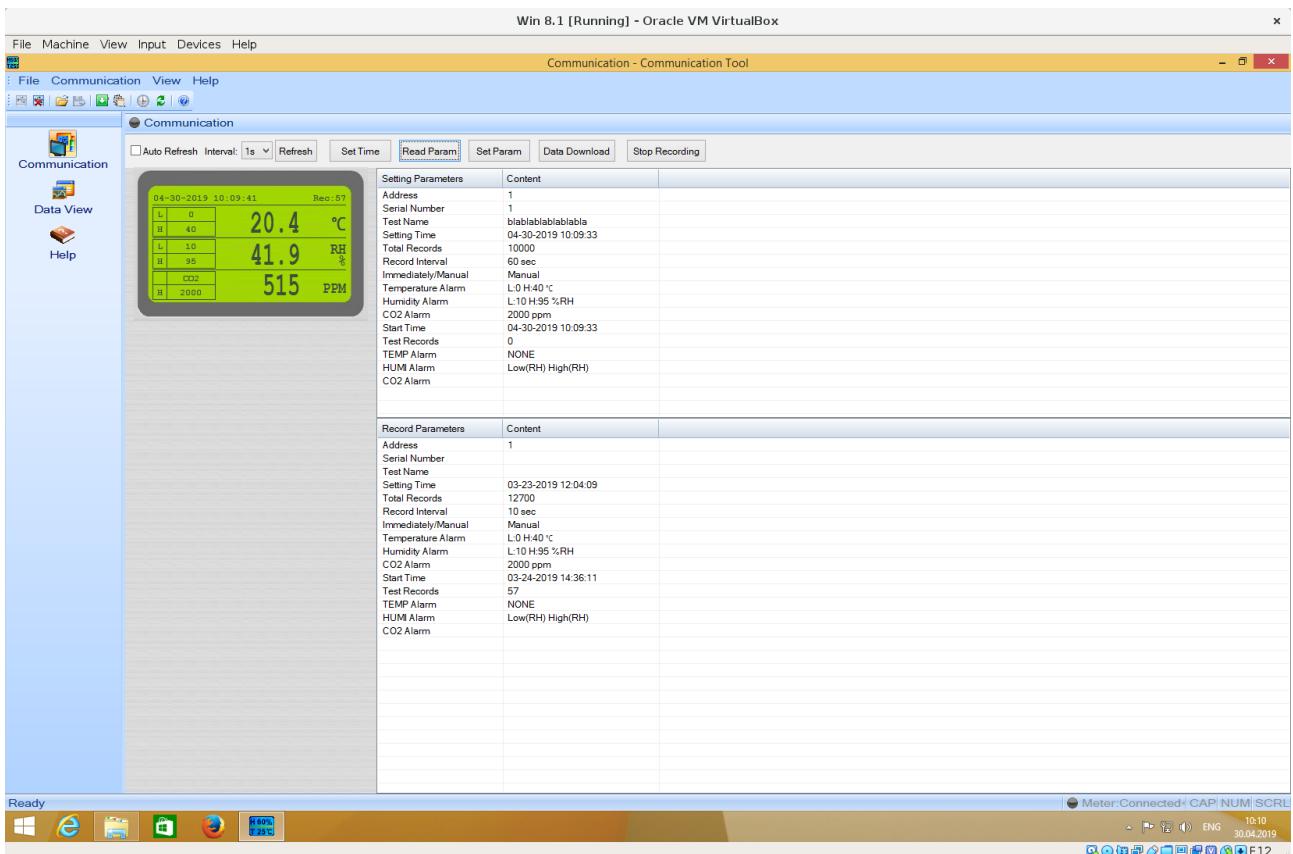
fmt = '>BBHHHBIBIHHH7sB29s'
fmt_names = ['cmd_id',
             'packet_id',
             'max_temperature_alert',
             'min_humidity_alert',
             'max_humidity_alert',
             'unknown_1',
             'setting_time',
             'record_type',
             'start_time',
             'test_records',
             'unknown_2',
             'CO2_alert',
             'unknown_3',
             'flags',
             'unknown']
```



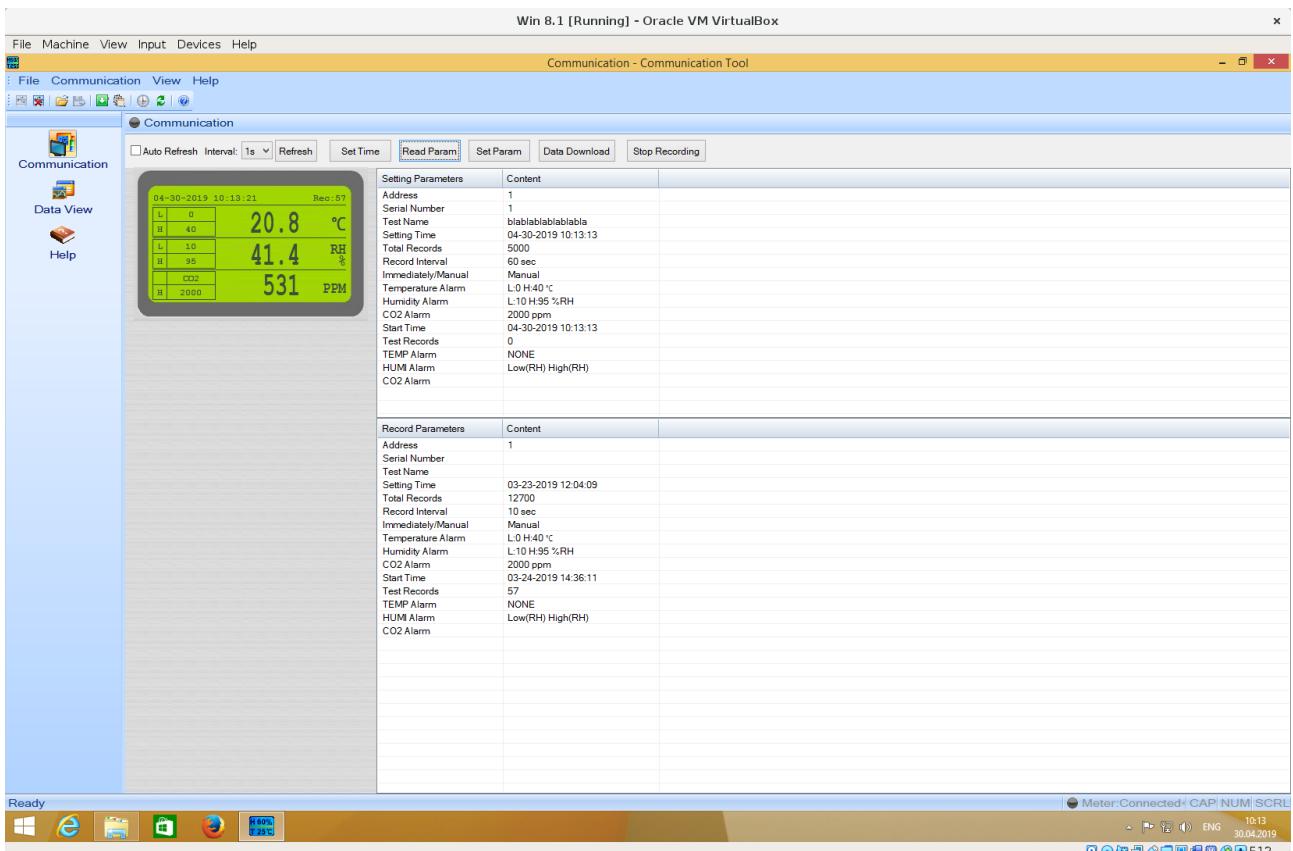
```
{
'test_name': '\x00\x00ablabla\x00\x00\x00\x00\x00\x00\x00\x00\x00\x00', 'cmd_id': 6, 'address': 1, 'packet_id': 0, 'serial': '1\x0034567890', 'unknown': ['\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00'], 'record_type': 'manually', 'unknown_1': 0, 'cmd_id': 6, 'max_temperature_alert': 40.0, 'packet_id': 1, 'unknown_2': 0, 'max_humidity_alert': 95.0, 'unknown_3': ['\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00'], 'min_humidity_alert': 10.0, 'flags': 0, 'setting_time': '2019-03-24 12:57:21', 'unknown': ['\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00'], 'CO2_alert': 2000, 'start_time': '2019-03-24 12:57:21', 'test_records': 0}
}
```



```
{
'serial': '1\x0034567890', 'address': 1, 'test_name': 'blablablablabla',
'cmd_id': 6, 'unknown': ['\x062', '\x00', '\x06c', '\x00', '\x061', '\x00', '\x00',
'\x00', '\x0ff', '\x04c', '\x31', '\x9c', '\x3c', '\x00', '\x01', '\xb0', '\x1',
'\x90'], 'packet_id': 0},
{'unknown_1': 0, 'unknown_2': 0, 'setting_time': '2019-04-30 07:06:48', 'flags':
2, 'max_humidity_alert': 95.0, 'cmd_id': 6, 'start_time': '2019-04-30 07:06:48',
'test_records': 0, 'packet_id': 1, 'min_humidity_alert': 10.0, 'CO2_alert':
2000, 'unknown': ['\x01', '\x03', '\x20', '\x00', '\x64', '\x03', '\xb6', '\x00',
'\x5c', '\xc7', '\xf4', '\x08', '\x00', '\xb1', '\x7e', '\x97', '\x5c', '\x00',
'\x00', '\x00', '\x07', '\xd0', '\x00', '\x00', '\x00', '\x00', '\x00', '\x00'],
'unknown_3': ['\x00', '\x00', '\x00', '\x00', '\x00', '\x00'], 'max_temperature_alert':
40.0, 'record_type': 'manually'}
```

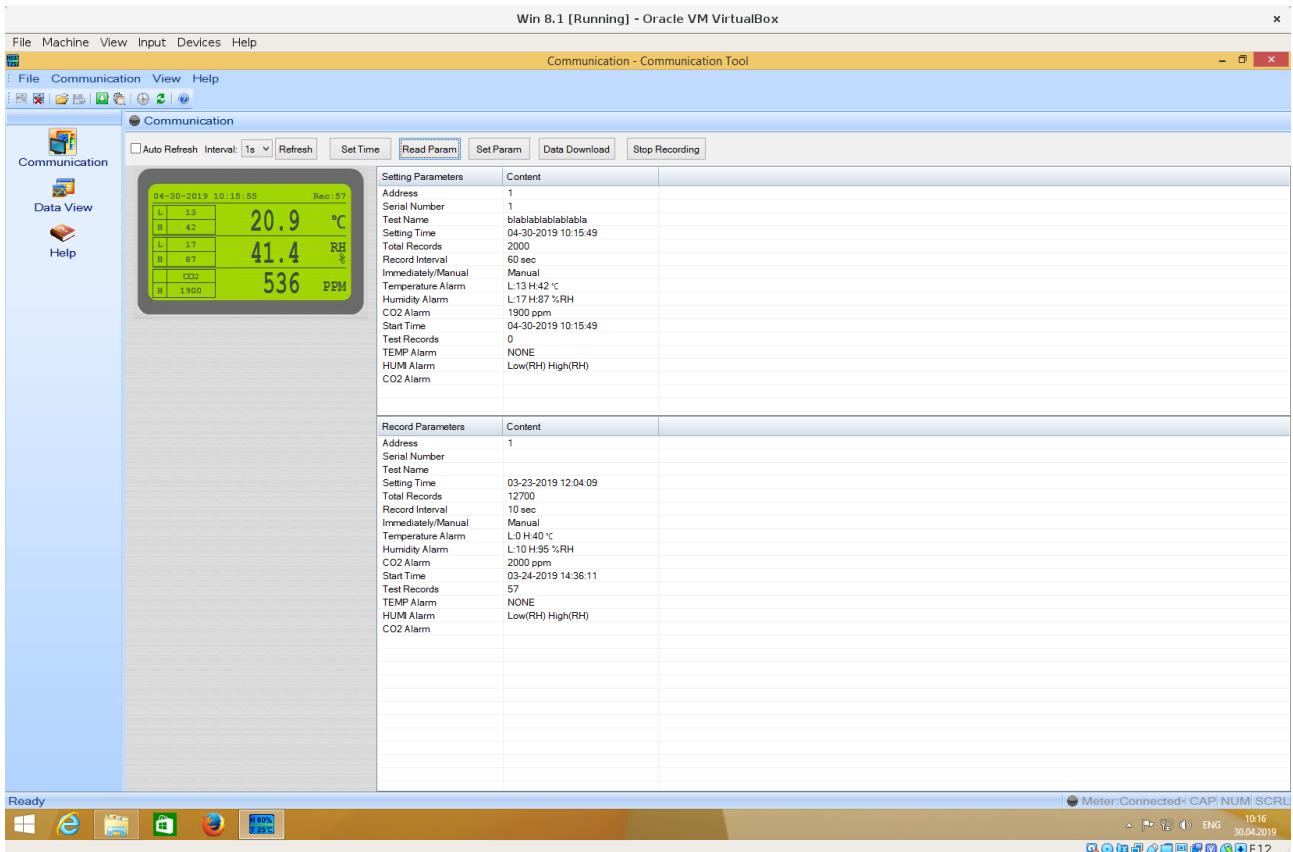


```
{
'packet_id': 0, 'test_name': 'blablablablabla', 'serial': '1\x0034567890',
'cmd_id': 6, 'address': 1, 'unknown': ['0x62', '0x0', '0x6c', '0x0', '0x61',
'0x0', '0x0', '0x0', '0xff', '0x4c', '0x27', '0x10', '0x3c', '0x0', '0x1',
'0xb0', '0x1', '0x90']},
{'max_temperature_alert': 40.0, 'start_time': '2019-04-30 07:09:33', 'flags': 2,
'setting_time': '2019-04-30 07:09:33', 'unknown_1': 0, 'unknown_2': 0,
'max_humidity_alert': 95.0, 'test_records': 0, 'unknown_3': ['0x0', '0x0',
'0x0', '0x0', '0x0', '0x0'], 'unknown': ['0x1', '0x3', '0x20', '0x0',
'0x64', '0x3', '0xb6', '0x0', '0x5c', '0xc7', '0xf4', '0xad', '0x0',
'0x8', '0xf4', '0xc7', '0x5c', '0x0', '0x0', '0x0', '0x0', '0x7',
'0xd0', '0x0', '0x0', '0x0'],
'min_humidity_alert': 10.0,
'CO2_alert': 2000, 'packet_id': 1, 'record_type': 'manually'}
```

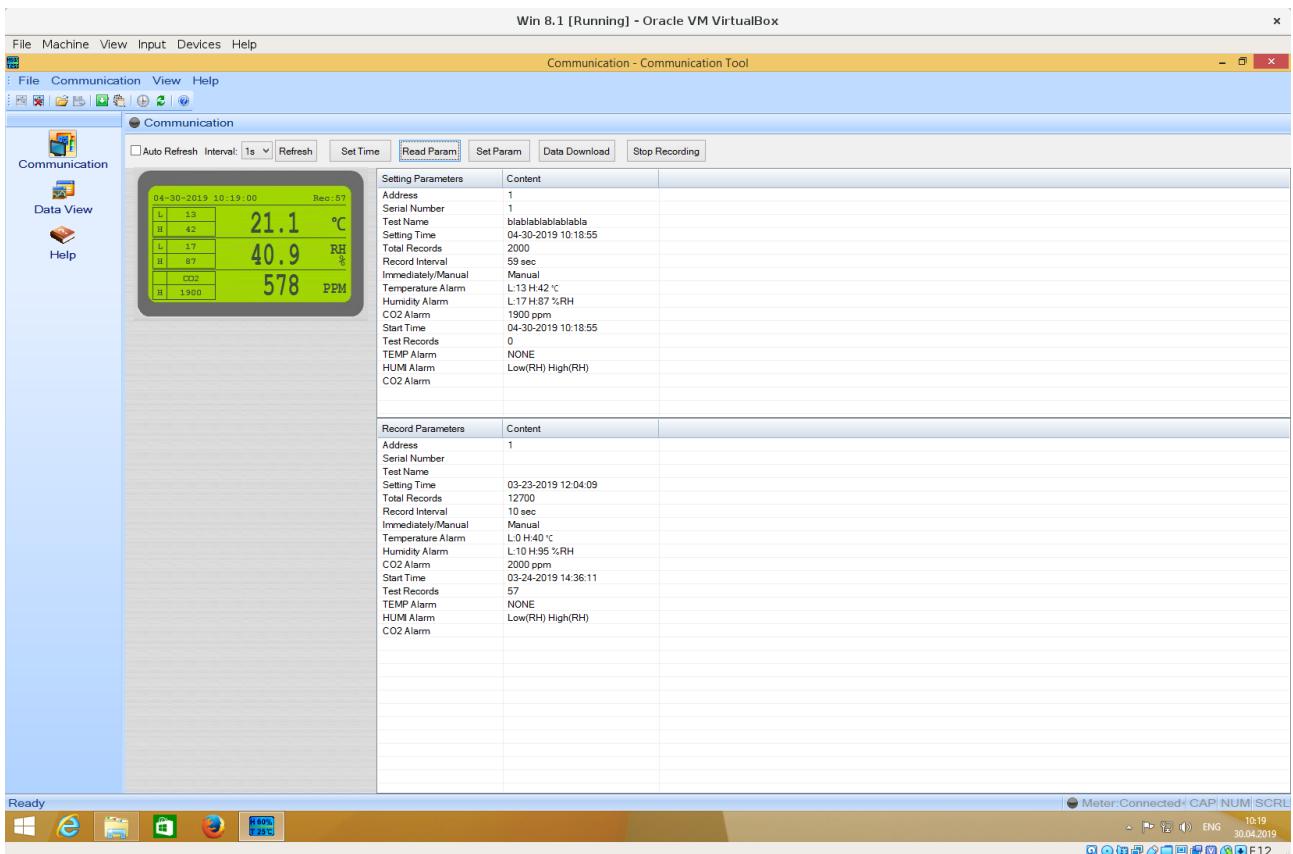


```
{
'test_name': 'blablablablabla', 'address': 1, 'cmd_id': 6, 'serial':
'1\x0034567890', 'packet_id': 0, 'unknown': ['0x62', '0x0', '0x6c', '0x0',
'0x61', '0x0', '0x0', '0x0', '0xff', '0x4c', '0x13', '0x88', '0x3c', '0x0',
'0x1', '0xb0', '0x1', '0x90']}}

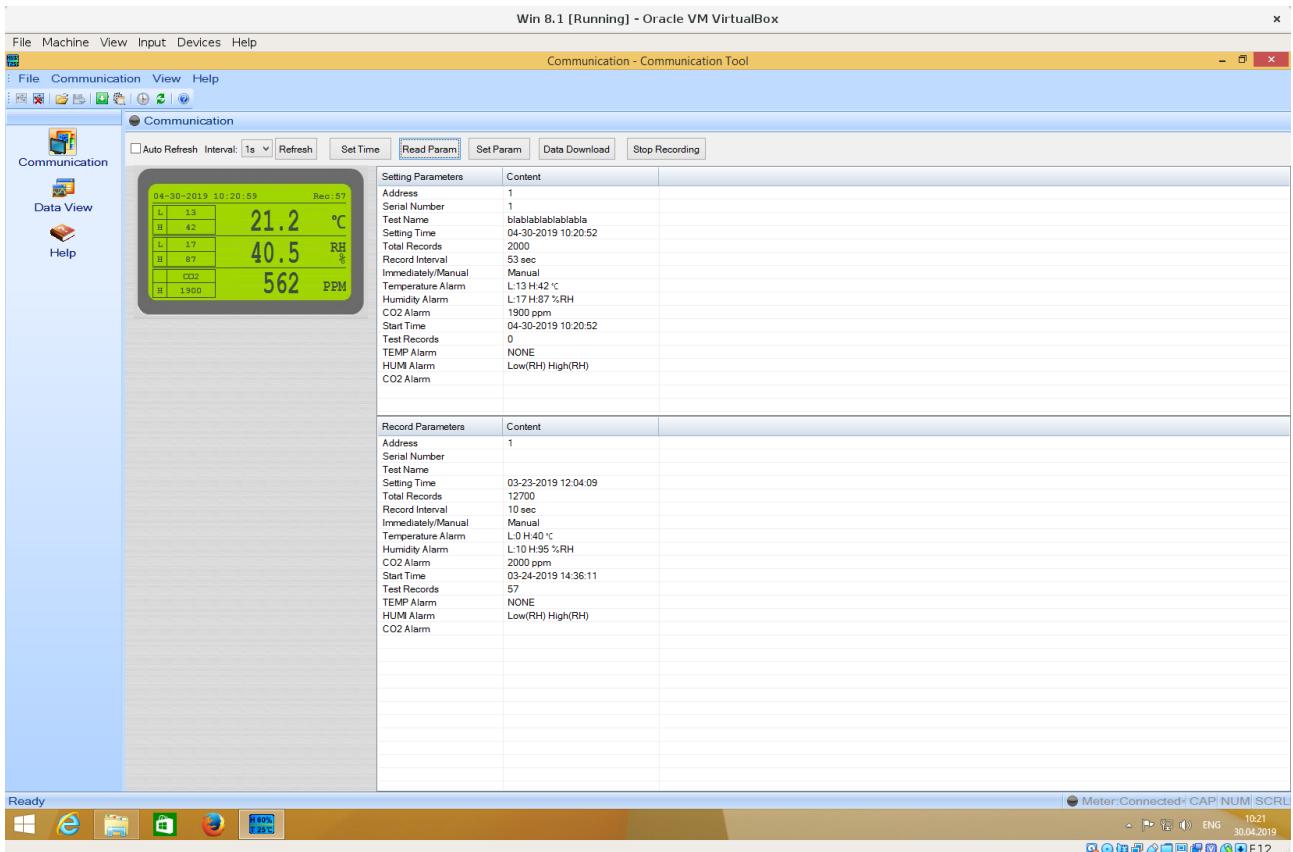
{'unknown_1': 0, 'CO2_alert': 2000, 'record_type': 'manually',
'max_humidity_alert': 95.0, 'flags': 2, 'setting_time': '2019-04-30 07:13:13',
'cmd_id': 6, 'test_records': 0, 'unknown': ['0x1', '0x3', '0x20', '0x0', '0x64',
'0x3', '0xb6', '0x0', '0x5c', '0xc7', '0xf5', '0x89', '0x0', '0xad', '0xf4',
'0xc7', '0x5c', '0x0', '0x0', '0x0', '0x0', '0x7', '0xd0', '0x0', '0x0', '0x0',
'0x0', '0x0', '0x0', '0x0', '0x0'], 'start_time': '2019-04-30 07:13:13', 'unknown_3': ['0x0',
'0x0', '0x0', '0x0', '0x0'], 'unknown_2': 0,
'max_temperature_alert': 40.0, 'min_humidity_alert': 10.0, 'packet_id': 1}
```



```
{
  'packet_id': 0, 'cmd_id': 6, 'serial': '1\x0034567890', 'unknown': ['0x62',
  '0x0', '0x6c', '0x0', '0x61', '0x0', '0x0', '0x0', '0xff', '0x4c', '0x7',
  '0xd0', '0x3c', '0x0', '0x1', '0xb0', '0x2', '0x12'], 'address': 1, 'test_name':
  'blablablablabla'}
  {'test_records': 0, 'max_humidity_alert': 87.0, 'record_type': 'manually',
  'unknown_2': 0, 'CO2_alert': 1900, 'packet_id': 1, 'cmd_id': 6, 'unknown':
  ['0x1', '0x3', '0x34', '0x0', '0xaa', '0x3', '0x66', '0x0', '0x5c', '0xc7',
  '0xf6', '0x25', '0x0', '0x89', '0xf5', '0xc7', '0x5c', '0x0', '0x0', '0x0',
  '0x0', '0x7', '0x6c', '0x0', '0x0', '0x0', '0x0', '0x0', '0x0', '0x0'],
  'flags': 2,
  'max_temperature_alert': 42.0, 'min_humidity_alert': 17.0, 'unknown_3': ['0x0',
  '0x0', '0x0', '0x0', '0x0', '0x0'], 'setting_time': '2019-04-30
  07:15:49', 'unknown_1': 0, 'start_time': '2019-04-30 07:15:49'}
```

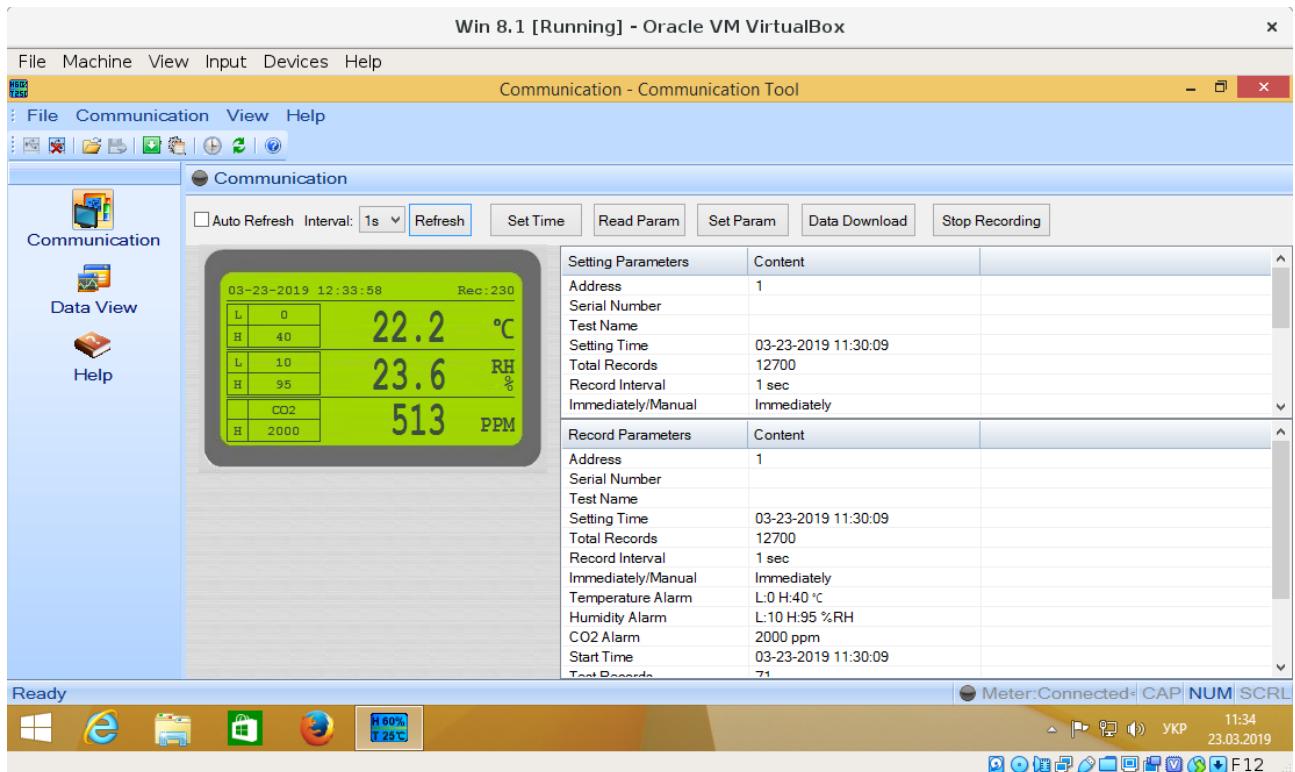


```
{
  'unknown': ['0x62', '0x0', '0x6c', '0x0', '0x61', '0x0', '0x0', '0x0', '0xff',
              '0x4c', '0x7', '0xd0', '0x3b', '0x0', '0x1', '0xb0', '0x2', '0x12'],
  'packet_id': 0, 'test_name': 'blablablablabla', 'cmd_id': 6, 'serial':
  '1\x0034567890', 'address': 1},
  {'unknown_3': ['0x0', '0x0', '0x0', '0x0', '0x0', '0x0'], 'packet_id': 1,
  'max_humidity_alert': 87.0, 'max_temperature_alert': 42.0, 'unknown_1': 0,
  'min_humidity_alert': 17.0, 'flags': 2, 'record_type': 'manually', 'unknown_2':
  0, 'unknown': ['0x1', '0x3', '0x34', '0x0', '0xaa', '0x3', '0x66', '0x0',
                 '0x5c', '0xc7', '0xf6', '0xdf', '0x0', '0x25', '0xf6', '0xc7',
                 '0x5c', '0x0', '0x0', '0x7', '0x6c', '0x0', '0x0', '0x0', '0x0'],
  'start_time': '2019-04-30 07:18:55', 'CO2_alert': 1900, 'cmd_id': 6,
  'test_records': 0, 'setting_time': '2019-04-30 07:18:55'}
```

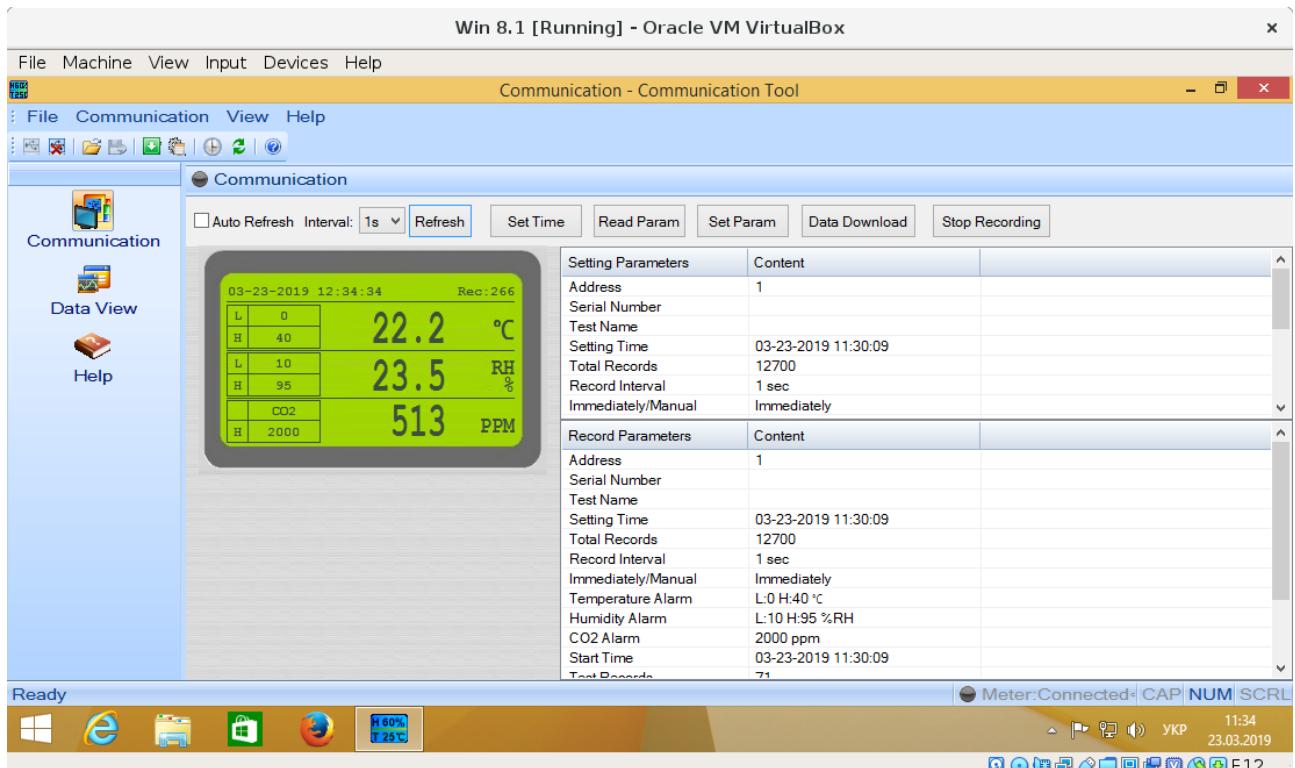


```
{
  'cmd_id': 6, 'serial': '1\x0034567890', 'test_name': 'blablablablabla',
  'unknown': ['0x62', '0x0', '0x6c', '0x0', '0x61', '0x0', '0x0', '0x0', '0xff',
  '0x4c', '0x7', '0xd0', '0x35', '0x0', '0x1', '0xb0', '0x2', '0x12'], 'address':
  1, 'packet_id': 0}
{
  'cmd_id': 6, 'min_humidity_alert': 17.0, 'test_records': 0, 'record_type':
  'manually', 'start_time': '2019-04-30 07:20:52', 'unknown_3': ['0x0', '0x0',
  '0x0', '0x0', '0x0', '0x0'], 'max_humidity_alert': 87.0, 'setting_time':
  '2019-04-30 07:20:52', 'unknown_2': 0, 'flags': 2, 'CO2_alert': 1900,
  'max_temperature_alert': 42.0, 'unknown': ['0x1', '0x3', '0x34', '0x0', '0xaa',
  '0x3', '0x66', '0x0', '0x5c', '0xc7', '0xf7', '0x54', '0x0', '0xdf', '0xf6',
  '0xc7', '0x5c', '0x0', '0x0', '0x0', '0x0', '0x7', '0x6c', '0x0', '0x0', '0x0',
  '0x0', '0x0'], 'unknown_1': 0, 'packet_id': 1}
}
```

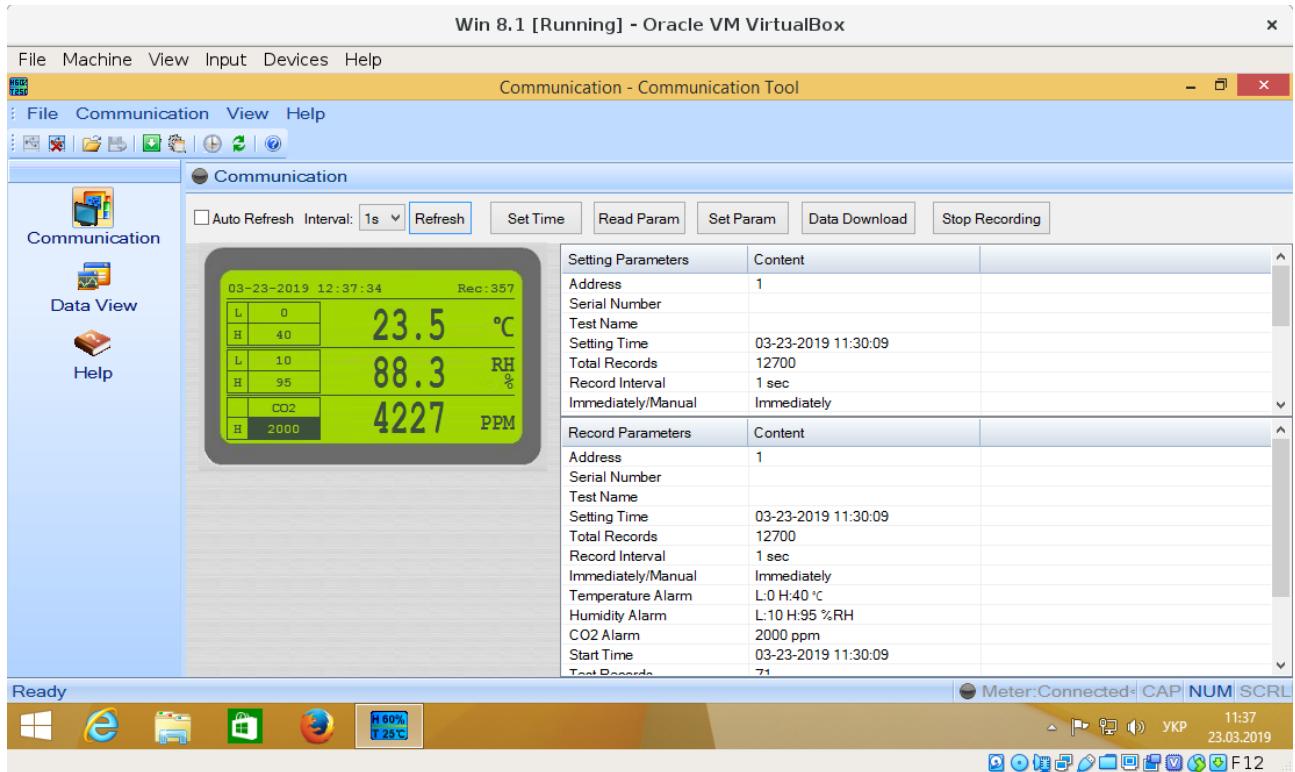
# Refresh



```
fffff92bf81afaa80 2547016213 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92bf81afaa80 2547016674 C Ci:1:011:0 0 32 = 055c9627 b600e602 6e00ec01
90032000 6403b6b0 030107d0 02010000 07d00002
```



fffff92bf81983a80 2582605884 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <  
fffff92bf81983a80 2582606370 C Ci:1:011:0 0 32 = 055c9627 da010a02 6e00eb01  
90032000 6403b6b0 030107d0 02010000 07d00002



fffff92bf81948f00 2763421158 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <  
fffff92bf81948f00 2763421641 C Ci:1:011:0 0 32 = 055c9628 8e016502 7b037301  
90032000 6403b6b0 030007d0 10830000 07d00003

Win 8.1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Communication - Communication Tool

File Communication View Help

Communication

Auto Refresh Interval: 1s Refresh Set Time Read Param Set Param Data Download Stop Recording

04-30-2019 11:24:40	Rec: 5
L: 13	23.0 °C
R: 42	
L: 17	89.4 RH %
R: 87	
C02	9999 PPM
H: 1900	

Setting Parameters Content

Address	1
Serial Number	1
Test Name	blablablablabla
Setting Time	04-30-2019 10:20:52
Total Records	2000
Record Interval	53 sec
Immediately/Manual	Manual
Temperature Alarm	L:13 H:42 °C
Humidity Alarm	L:17 H:87 %RH
CO2 Alarm	1900 ppm
Start Time	04-30-2019 10:20:52
Test Records	0
TEMP Alarm	NONE
HUM Alarm	Low(RH) High(RH)
CO2 Alarm	

Record Parameters Content

Address	1
Serial Number	1
Test Name	blablablablabla
Setting Time	04-30-2019 10:20:52
Total Records	2000
Record Interval	53 sec
Immediately/Manual	Manual
Temperature Alarm	L:13 H:42 °C
Humidity Alarm	L:17 H:87 %RH
CO2 Alarm	1900 ppm
Start Time	04-30-2019 11:20:45
Test Records	5
TEMP Alarm	NONE
HUM Alarm	Low(RH) High(RH)
CO2 Alarm	

Meter:Connected CAP NUM SCRLL 11:25 YKP 30.04.2019 F12

Ready

```
"min_temp": 13.0, "alert_C02": 1900, "temperature": 22.4, "max_temp": 42.0,
"C02": 9999, "time": "2019-04-30 11:25:01", "cmd_id": 5, "min_RH": 17.0,
"flags": 65058, "record": 5, "RH": 83.5, "max_RH": 87.0}
```

Win 8.1 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Communication - Communication Tool

File Communication View Help

Communication

Auto Refresh Interval: 1s Refresh Set Time Read Param Set Param Data Download Stop Recording

04-30-2019 11:26:26	Rec: 7
L: 13	22.0 °C
R: 42	
L: 17	43.9 RH %
R: 87	
C02	3490 PPM
H: 1900	

Setting Parameters Content

Address	1
Serial Number	1
Test Name	blablablablabla
Setting Time	04-30-2019 10:20:52
Total Records	2000
Record Interval	53 sec
Immediately/Manual	Manual
Temperature Alarm	L:13 H:42 °C
Humidity Alarm	L:17 H:87 %RH
CO2 Alarm	1900 ppm
Start Time	04-30-2019 10:20:52
Test Records	0
TEMP Alarm	NONE
HUM Alarm	Low(RH) High(RH)
CO2 Alarm	

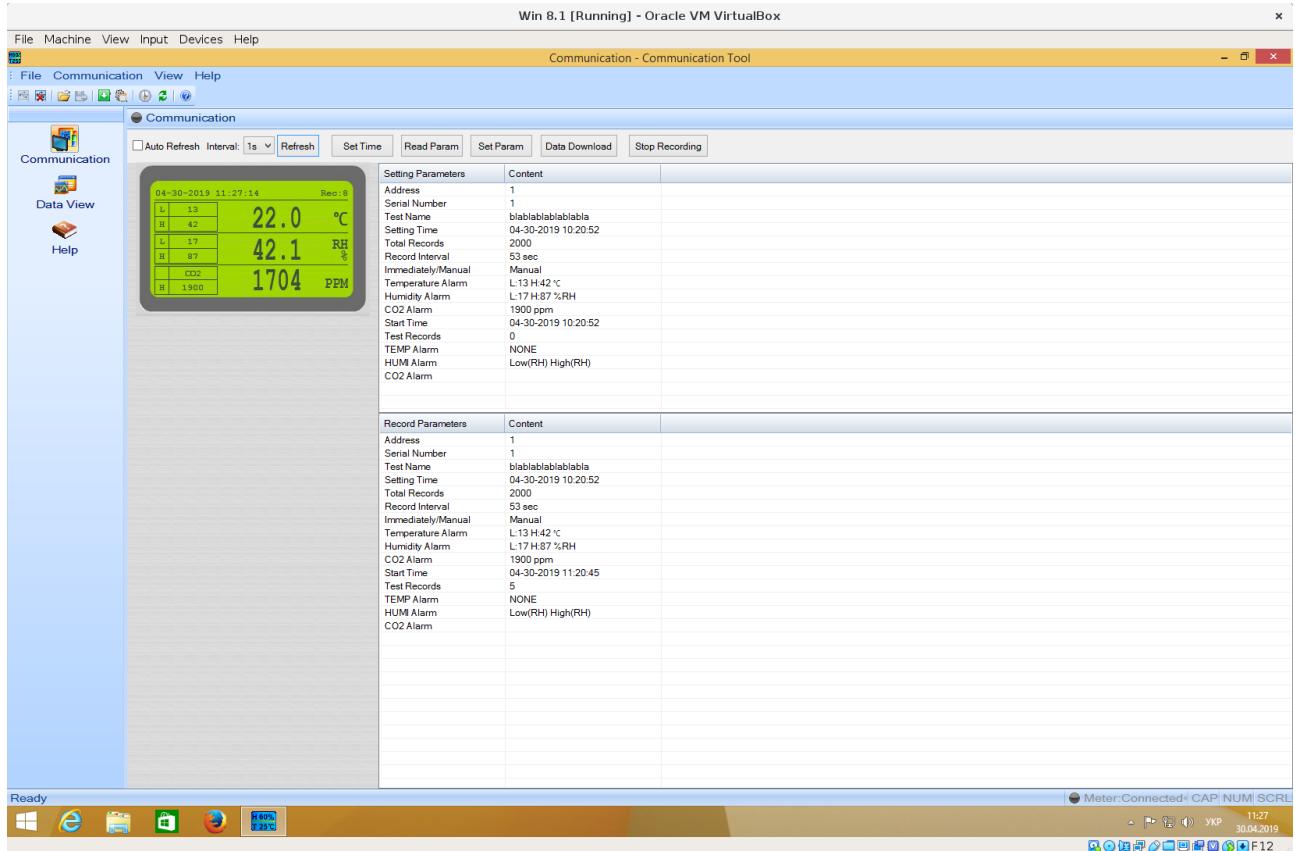
Record Parameters Content

Address	1
Serial Number	1
Test Name	blablablablabla
Setting Time	04-30-2019 10:20:52
Total Records	2000
Record Interval	53 sec
Immediately/Manual	Manual
Temperature Alarm	L:13 H:42 °C
Humidity Alarm	L:17 H:87 %RH
CO2 Alarm	1900 ppm
Start Time	04-30-2019 11:20:45
Test Records	5
TEMP Alarm	NONE
HUM Alarm	Low(RH) High(RH)
CO2 Alarm	

Meter:Connected CAP NUM SCRLL 11:26 YKP 30.04.2019 F12

Ready

```
{"record": 7, "RH": 42.6, "min_temp": 13.0, "max_RH": 87.0, "min_RH": 17.0, "alert_CO2": 1900, "CO2": 2198, "flags": 65058, "max_temp": 42.0, "cmd_id": 5, "temperature": 22.0, "time": "2019-04-30 11:26:53"}
```

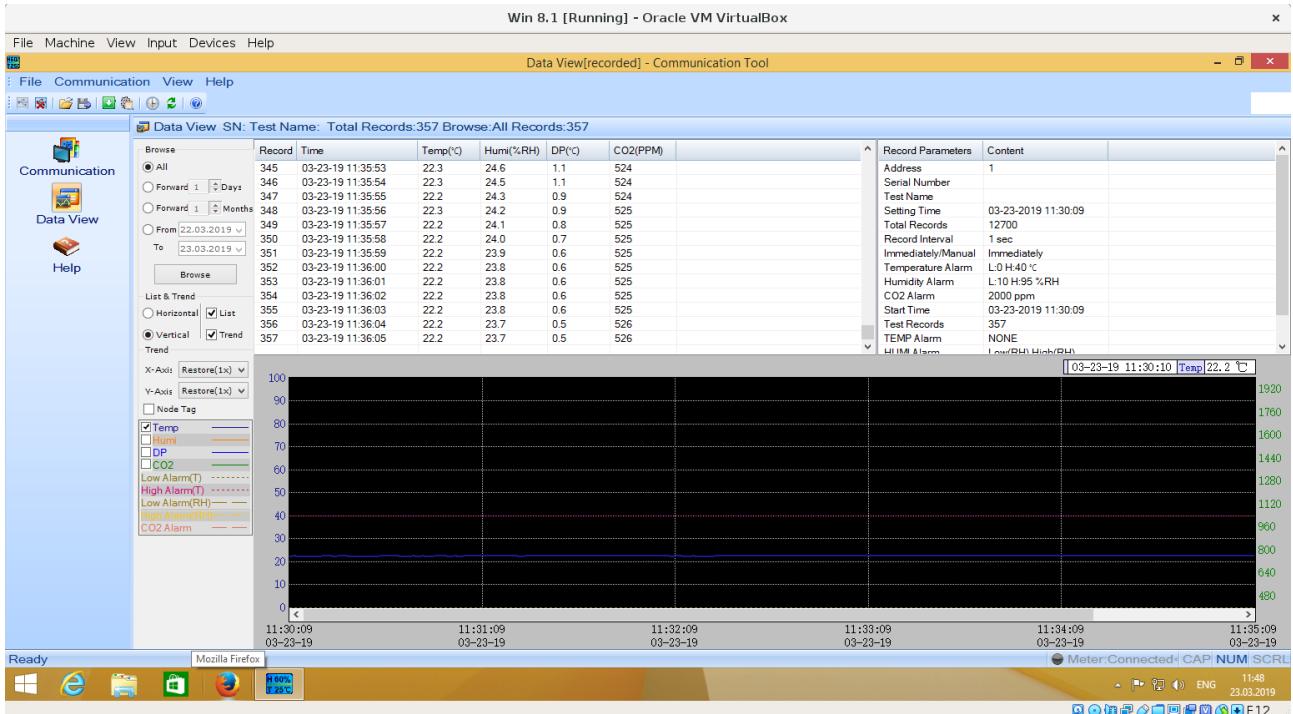


```
{"max_temp": 42.0, "min_RH": 17.0, "min_temp": 13.0, "CO2": 1080, "RH": 41.2, "time": "2019-04-30 11:28:03", "temperature": 22.0, "max_RH": 87.0, "alert_CO2": 1900, "record": 9, "cmd_id": 5, "flags": 65058}
```

# Stop recording

```
fffff92c146f57240 2671399848 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92c146f57240 2671400341 C Ci:1:011:0 0 32 = 055c9628 32016202 6e00ee01
90032000 6403b6b0 030107d0 020d0000 07d00002
fffff92c148219900 2674321648 S Io:1:011:1 -115:8 2 = 0300
fffff92c148219900 2674327648 C Io:1:011:1 0:8 2 >
fffff92bf779b1540 2674327857 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92bf779b1540 2674329079 C Ci:1:011:0 0 61 = 07000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff92bf779b1b40 2674329241 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92bf779b1b40 2674330101 C Ci:1:011:0 0 61 = 07010320 006403b6 005c95fc
a1015c95 fca10165 000007d0 00000000 00000003
```

# Data download



```

fffff92c12a2fc480 2841135729 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92c12a2fc480 2841136182 C Ci:1:011:0 0 32 = 055c9628 dc016502 6f014801
90032000 6403b6b0 030007d0 085e0000 07d00003
fffff92c12a2fcfa80 2844742221 S Io:1:011:1 -115:8 2 = 0300
fffff92c12a2fcfa80 2844743869 C Io:1:011:1 0:8 2 >
fffff92bf84620f00 2844744115 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92bf84620f00 2844745320 C Ci:1:011:0 0 61 = 07000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff92bf779b1f00 2844745509 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92bf779b1f00 2844746367 C Ci:1:011:0 0 61 = 07010320 006403b6 005c95fc
a1015c95 fca10165 000007d0 00000000 00000003
fffff92c1476286c0 2844866776 S Io:1:011:1 -115:8 3 = 040000
fffff92c1476286c0 2844871871 C Io:1:011:1 0:8 3 >
fffff92c14b0abcc0 2844872088 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <
fffff92c14b0abcc0 2844892218 C Ci:1:011:0 0 61 = 086ded02 04026eec 0204026e
ec020402 6dec0204 026eec02 04026dec 0205026d
fffff92c149013b40 2845006439 S Io:1:011:1 -115:8 3 = 040001
fffff92c149013b40 2845007848 C Io:1:011:1 0:8 3 >
fffff92c149013b40 2845008055 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <
fffff92c149013b40 2845028218 C Ci:1:011:0 0 61 = 086eec02 05026eec 0205026d
ec020502 6eec0205 026eec02 05026eeb 0205026e
fffff92c147a2dc00 2845131612 S Io:1:011:1 -115:8 3 = 040002
fffff92c147a2dc00 2845135857 C Io:1:011:1 0:8 3 >
fffff92bf779b16c0 2845136019 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <
fffff92bf779b16c0 2845156518 C Ci:1:011:0 0 61 = 086dea02 05026dea 0206026d
ea020602 6dea0206 026eea02 06026eea 0205026e
fffff92c1490136c0 2845271821 S Io:1:011:1 -115:8 3 = 040003
fffff92c1490136c0 2845279870 C Io:1:011:1 0:8 3 >
fffff92bf779b16c0 2845280093 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <

```

fffff92bf779b16c0 2845300269 C Ci:1:011:0 0 61 = 086eeb02 05026deb 0206026e  
eb020602 6eeb0206 026deb02 06026eec 0205026e  
fffff92c14b0abcc0 2845412655 S Io:1:011:1 -115:8 3 = 040004  
fffff92c14b0abcc0 2845415870 C Io:1:011:1 0:8 3 >  
fffff92c1476286c0 2845416092 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c1476286c0 2845436497 C Ci:1:011:0 0 61 = 086eec02 05026eec 0205026d  
ec020502 6eec0205 026eed02 05026ded 0205026e  
fffff92c1490136c0 2845537233 S Io:1:011:1 -115:8 3 = 040005  
fffff92c1490136c0 2845543871 C Io:1:011:1 0:8 3 >  
fffff92bf779b19c0 2845544051 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92bf779b19c0 2845564271 C Ci:1:011:0 0 61 = 086eed02 05026eed 0205026e  
ec020502 6eec0205 026eec02 05026eec 0206026e  
fffff92bf779b19c0 2845677954 S Io:1:011:1 -115:8 3 = 040006  
fffff92bf779b19c0 2845679870 C Io:1:011:1 0:8 3 >  
fffff92bf77b26780 2845680079 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92bf77b26780 2845700541 C Ci:1:011:0 0 61 = 086deb02 06026eec 0206026e  
eb020602 6eeb0206 026eeb02 06026eeb 0206026e  
fffff92c148219b40 2845803442 S Io:1:011:1 -115:8 3 = 040007  
fffff92c148219b40 2845807874 C Io:1:011:1 0:8 3 >  
fffff92bf779b1d80 2845808094 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92bf779b1d80 2845828267 C Ci:1:011:0 0 61 = 086eec02 07026eec 0207026e  
ec020702 6eec0207 026eec02 07026eec 0208026e  
fffff92c148219b40 2845943565 S Io:1:011:1 -115:8 3 = 040008  
fffff92c148219b40 2845943847 C Io:1:011:1 0:8 3 >  
fffff92c148219b40 2845944055 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c148219b40 2845964418 C Ci:1:011:0 0 61 = 086eec02 09026eeb 0209026e  
ec020902 6eec0209 026eec02 09026eec 0209026e  
fffff92c148b17600 2846068717 S Io:1:011:1 -115:8 3 = 040009  
fffff92c148b17600 2846071871 C Io:1:011:1 0:8 3 >  
fffff92bf77b263c0 2846072041 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92bf77b263c0 2846092318 C Ci:1:011:0 0 61 = 086eec02 09026eec 020a026e  
ec020a02 6eec020a 026eec02 0a026eec 020b026e  
fffff92bf77b263c0 2846194122 S Io:1:011:1 -115:8 3 = 04000a  
fffff92bf77b263c0 2846199858 C Io:1:011:1 0:8 3 >  
fffff92c147a2d600 2846200042 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c147a2d600 2846220419 C Ci:1:011:0 0 61 = 086eeb02 0a026eeb 020a026e  
eb020a02 6deb020a 026dea02 0a026eea 020a026e  
fffff92bf77b26f00 2846334464 S Io:1:011:1 -115:8 3 = 04000b  
fffff92bf77b26f00 2846335871 C Io:1:011:1 0:8 3 >  
fffff92c147a2d000 2846336064 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c147a2d000 2846356269 C Ci:1:011:0 0 61 = 086eec02 0a026eec 0209026e  
eb020902 6eec0209 026eec02 09026eeb 0209026e  
fffff92c147a2d000 2846459441 S Io:1:011:1 -115:8 3 = 04000c  
fffff92c147a2d000 2846463858 C Io:1:011:1 0:8 3 >  
fffff92c12a3c3b40 2846464080 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c12a3c3b40 2846484417 C Ci:1:011:0 0 61 = 086eec02 08026eec 0208026e  
ec020702 6eeb0207 026eec02 07026eec 0207026e  
fffff92bf779b19c0 2846600430 S Io:1:011:1 -115:8 3 = 04000d  
fffff92bf779b19c0 2846607848 C Io:1:011:1 0:8 3 >  
fffff92c148219b40 2846608036 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c148219b40 2846628346 C Ci:1:011:0 0 61 = 086eec02 06026eec 0206026e  
ec020602 6eec0206 026eec02 06026eec 0206026e  
fffff92c12a3c3b40 2846740578 S Io:1:011:1 -115:8 3 = 04000e  
fffff92c12a3c3b40 2846743882 C Io:1:011:1 0:8 3 >  
fffff92c147a2d000 2846744068 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c147a2d000 2846764398 C Ci:1:011:0 0 61 = 086eec02 05026eec 0205026e  
ed020402 6eec0204 026eed02 04026eec 0204026e  
fffff92c12a3c33c0 2846865766 S Io:1:011:1 -115:8 3 = 04000f  
fffff92c12a3c33c0 2846871872 C Io:1:011:1 0:8 3 >  
fffff92c147a2d000 2846872061 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c147a2d000 2846892220 C Ci:1:011:0 0 61 = 086eec02 04026eed 0204026e  
ed020402 6eed0204 026eec02 04026eed 0204026e  
fffff92c14834a6c0 2847006023 S Io:1:011:1 -115:8 3 = 040010  
fffff92c14834a6c0 2847007849 C Io:1:011:1 0:8 3 >

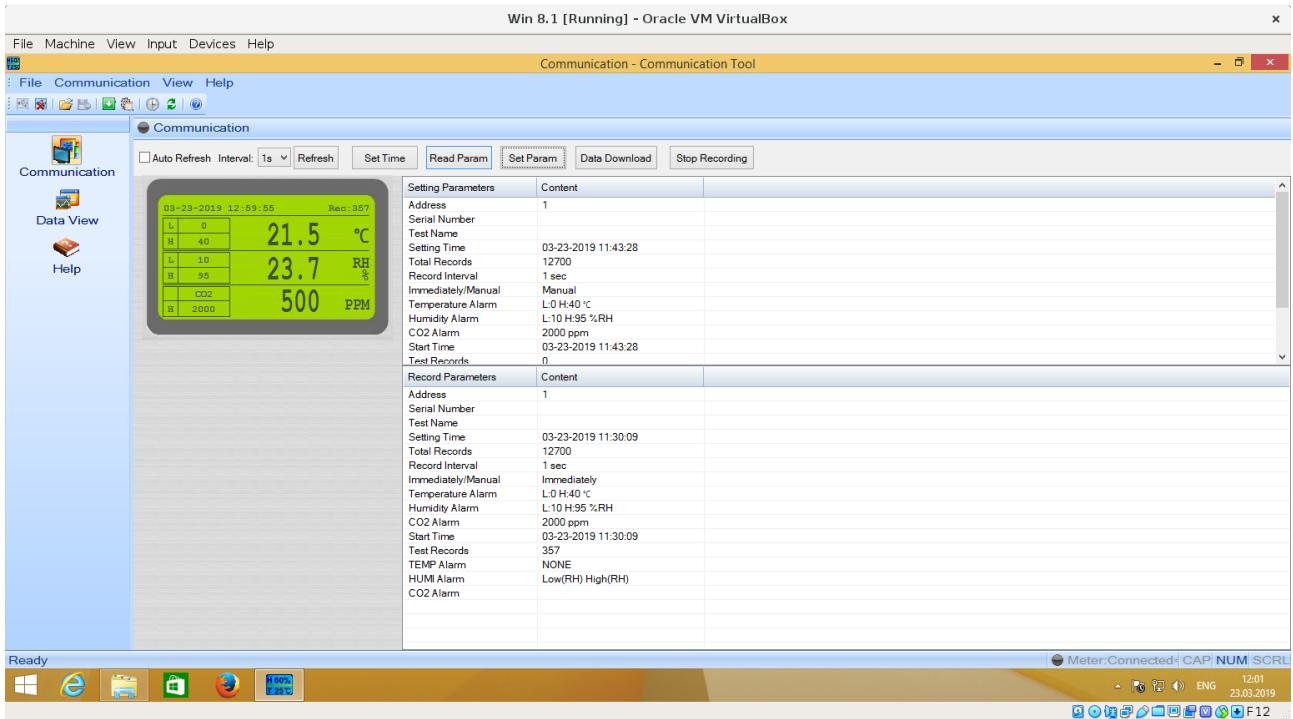
fffff92c123508180 2847008076 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c123508180 2847028394 C Ci:1:011:0 0 61 = 086eed02 03026eec 0203026e  
ec020302 6eec0203 026eec02 03026eec 0203026e  
fffff92c147a2d600 2847131389 S Io:1:011:1 -115:8 3 = 040011  
fffff92c147a2d600 2847135872 C Io:1:011:1 0:8 3 >  
fffff92c14834a6c0 2847136094 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c14834a6c0 2847156271 C Ci:1:011:0 0 61 = 086eec02 01026eec 0201026e  
ec020102 6eec0201 026eec02 01026eec 0201026e  
fffff92c123517780 2847272350 S Io:1:011:1 -115:8 3 = 040012  
fffff92c123517780 2847279873 C Io:1:011:1 0:8 3 >  
fffff92c123517240 2847280094 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c123517240 2847300398 C Ci:1:011:0 0 61 = 086eec02 01026eec 0201026e  
ec020102 6eec0201 026eec02 01026eec 0201026e  
fffff92c147a2d000 2847412517 S Io:1:011:1 -115:8 3 = 040013  
fffff92c147a2d000 2847415874 C Io:1:011:1 0:8 3 >  
fffff92c0b47b7240 2847416086 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c0b47b7240 2847436272 C Ci:1:011:0 0 61 = 086eec02 01026eec 0201026e  
ec020102 6eec0201 026eed02 01026eec 0201026e  
fffff92c0b47b7c00 2847537789 S Io:1:011:1 -115:8 3 = 040014  
fffff92c0b47b7c00 2847543878 C Io:1:011:1 0:8 3 >  
fffff92c12a3c3b40 2847544079 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c12a3c3b40 2847564297 C Ci:1:011:0 0 61 = 086eec02 01026eeb 0201026e  
ea020102 6eeb0201 026eea02 01026eea 0201026e  
fffff92c1474f36c0 2847678019 S Io:1:011:1 -115:8 3 = 040015  
fffff92c1474f36c0 2847679876 C Io:1:011:1 0:8 3 >  
fffff92c147a2d000 2847680129 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c147a2d000 2847700295 C Ci:1:011:0 0 61 = 086eea02 00026eea 0200026e  
ea020102 6eeb0201 026eeb02 01026eeb 0201026e  
fffff92bf7794c0c0 2847803324 S Io:1:011:1 -115:8 3 = 040016  
fffff92bf7794c0c0 2847807865 C Io:1:011:1 0:8 3 >  
fffff92c146cee840 2847808071 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c146cee840 2847828320 C Ci:1:011:0 0 61 = 086eeb02 01026eeb 0201026e  
eb020202 6eec0202 026eec02 02026eec 0202026e  
fffff92bf77b263c0 2847944213 S Io:1:011:1 -115:8 3 = 040017  
fffff92bf77b263c0 2847951874 C Io:1:011:1 0:8 3 >  
fffff92c1235173c0 2847952075 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c1235173c0 2847972296 C Ci:1:011:0 0 61 = 086eec02 04026eec 0204026e  
ec020402 6eed0204 026eec02 04026eed 0204026e  
fffff92bf7794c480 2848084237 S Io:1:011:1 -115:8 3 = 040018  
fffff92bf7794c480 2848087859 C Io:1:011:1 0:8 3 >  
fffff92bf7794cd80 2848088020 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92bf7794cd80 2848108346 C Ci:1:011:0 0 61 = 086eed02 07026fed 0207026e  
ed020702 6eed0207 026eed02 07026eed 0207026e  
fffff92c0b47b7240 2848225080 S Io:1:011:1 -115:8 3 = 040019  
fffff92c0b47b7240 2848231874 C Io:1:011:1 0:8 3 >  
fffff92c0b47b7c00 2848232049 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c0b47b7c00 2848252339 C Ci:1:011:0 0 61 = 086eed02 08026eed 0208026e  
ed020802 6fed0208 026eed02 08026eed 0208026e  
fffff92c0b47b7c00 2848366019 S Io:1:011:1 -115:8 3 = 04001a  
fffff92c0b47b7c00 2848367873 C Io:1:011:1 0:8 3 >  
fffff92c0b47b7c00 2848368032 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c0b47b7c00 2848388322 C Ci:1:011:0 0 61 = 086eec02 09026eed 0209026e  
ed020902 6eec0209 026fec02 09026eec 0209026e  
fffff92c098cb4e40 2848490661 S Io:1:011:1 -115:8 3 = 04001b  
fffff92c098cb4e40 2848495849 C Io:1:011:1 0:8 3 >  
fffff92c147235a80 2848496033 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c147235a80 2848516574 C Ci:1:011:0 0 61 = 086eeb02 09026fed 0209026f  
f1020902 6ff80209 026f0312 09026e0c 1209026f  
fffff92c147628180 2848631447 S Io:1:011:1 -115:8 3 = 04001c  
fffff92c147628180 2848631874 C Io:1:011:1 0:8 3 >  
fffff92c146496000 2848632106 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c146496000 2848652328 C Ci:1:011:0 0 61 = 086e0312 0a026f01 120a026e  
ff020a02 6ffd020b 026efc02 0b026ffa 020b026f  
fffff92c14bc2e180 2848755960 S Io:1:011:1 -115:8 3 = 04001d

fffff92c14bc2e180 2848759851 C Io:1:011:1 0:8 3 >  
fffff92c14bc2e180 2848760017 S Ci:1:011:0 s a1 01 0108 0000 003d 61 <  
fffff92c14bc2e180 2848780522 C Ci:1:011:0 0 61 = 086ef102 0d026ef0 020d026e  
ef020d02 6eee020d 026eee02 0d026eee 020d026e  
fffff92c129858600 2853019879 C Ii:1:008:2 0:1 16 = 09000000 00000004 00000000  
00000000

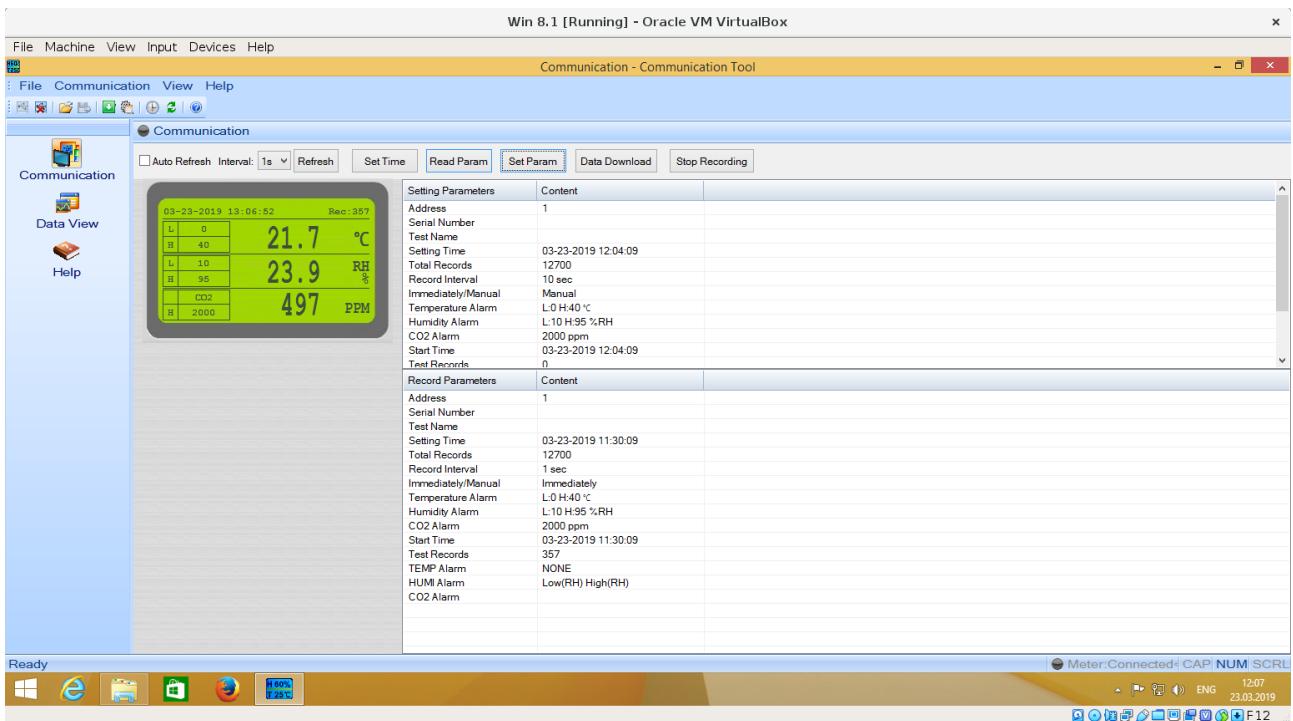
# **Disconnect**

fffff92c098cb4b40 4023022264 C Ii:1:011:1 -2:8 0

# Connect



```
fffff92c0b47b7e40 6370755 S Co:1:011:0 s 21 0a 0000 0000 0000 0
fffff92c0b47b7e40 6370888 C Co:1:011:0 0 0
fffff92c0b47b7e40 6371036 S Ii:1:011:1 -115:8 61 <
fffff92c0b47b7780 6371183 S Ci:1:011:0 s 80 06 0302 0409 0202 514 <
fffff92c0b47b7780 6371466 C Ci:1:011:0 0 14 = 0e034800 54003200 30003000 3000
fffff92c146246600 6678573 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92c146246600 6679046 C Ci:1:011:0 0 32 = 055c962d cb016502 6700ed01 90032000
6403b6b0 030007d0 01f40000 07d00002
fffff92c0b47b7780 6680252 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c0b47b7780 6681302 C Ci:1:011:0 0 61 = 06000100 00000000 00000000 00000000
00000000 00000000 00000000 00000000
fffff92c146246600 6681465 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c146246600 6682321 C Ci:1:011:0 0 61 = 06010320 006403b6 005c95ff c0005c95
ffc00000 000007d0 00000000 00000002
fffff92c0b47b70c0 6682847 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c0b47b70c0 6683896 C Ci:1:011:0 0 61 = 07000100 00000000 00000000 00000000
00000000 00000000 00000000 00000000
fffff92c0b47b7780 6684095 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c0b47b7780 6684946 C Ci:1:011:0 0 61 = 07010320 006403b6 005c95fc a1015c95
fca10165 000007d0 00000000 00000002
```



```

fffff92bf77b26f00 424428190 S Co:1:011:0 s 21 0a 0000 0000 0000 0
fffff92bf77b26f00 424428360 C Co:1:011:0 0 0
fffff92c148b17a80 424428626 S Ii:1:011:1 -115:8 61 <
fffff92c1474f3b40 424428751 S Ci:1:011:0 s 80 06 0302 0409 0202 514 <
fffff92c1474f3b40 424429060 C Ci:1:011:0 0 14 = 0e034800 54003200 30003000 3000
fffff92c123517300 424740455 S Ci:1:011:0 s a1 01 0105 0000 003d 61 <
fffff92c123517300 424740945 C Ci:1:011:0 0 32 = 055c962f 6c016502 6900ef01
90032000 6403b6b0 030007d0 01f10000 07d00002
fffff92c148b17f00 424742010 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c148b17f00 424743098 C Ci:1:011:0 0 61 = 06000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff92c123517900 424743310 S Ci:1:011:0 s a1 01 0106 0000 003d 61 <
fffff92c123517900 424744174 C Ci:1:011:0 0 61 = 06010320 006403b6 005c9604
99005c96 04990000 000007d0 00000000 00000002
fffff92c123517180 424745028 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c123517180 424746121 C Ci:1:011:0 0 61 = 07000100 00000000 00000000
00000000 00000000 00000000 00000000
fffff92c123517240 424746436 S Ci:1:011:0 s a1 01 0107 0000 003d 61 <
fffff92c123517240 424747281 C Ci:1:011:0 0 61 = 07010320 006403b6 005c95fc
a1015c95 fca10165 000007d0 00000000 00000002

```