



**270**

© 2010 ...



<b>I</b>		<b>5</b>
1	.....	5
2	.....	5
<b>II</b>		<b>6</b>
1	.....	6
2	- .....	6
3	- .....	7
<b>III</b>		<b>8</b>
1	.....	8
2	.....	8
	.....	8
	.....	9
	.....	10
3	.....	12
	.....	13
	.....	14
4	.....	15
	.....	16
	.....	17
	.....	18
	.....	19
	.....	19
	.....	20
5	.....	21
	.....	22
<b>IV</b>		<b>23</b>
	<b>270 -</b>	
1	LIS200 .....	23
2	.....	25
3	.....	26
<b>V</b>		<b>28</b>
	<b>270</b>	
1	- .....	28
	.....	28
	.....	29
	.....	30

---

<b>2</b>	.....	<b>31</b>
	.....	31
	" HyperTerminal " .....	32
	.....	33
	.....	35
	.....	35
	.....	36
<b>3</b>	.....	<b>37</b>
	.....	37
	.....	38
	.....	39
	.....	41
<b>4</b>	.....	<b>41</b>
	.....	42
	.....	42
	.....	43
	.....	44
	.....	46
	.....	47

1

1.1

" - " .  
,  
" " 270 LIS200  
" ,  
.  
,  
.  
,  
.

1.2

" - " )  
(  
270.  
" - " Short Message  
Service (SMS)  
270.  
" - "

## 2

### 2.1

( ):

- Intel Pentium ( ) 1,5 ;
- 32 ;
- 100 ;
- Microsoft Windows 95/98/NT/2000/XP.

### 2.2

\_\_\_\_\_

" - "

,

“ ” - “ ”

”

"setupsodek.exe" "sodek.exe".

"LIS200\_SMS\_Install\_ \_ \_ \_ .exe", \_ \_ \_ \_ .

:

▶ CD-ROM . Windows

- ,

[ ], .

▶ “

” ([www.gaselectro.ru](http://www.gaselectro.ru)).

▶ , .

▶ " " ,

"C:\SODEK".

\_\_\_\_\_

" " ,

,

" " ( - ). (sodek.mdb),  
 , , .. , ,  
 ► , .  
 ► [ ] .

---

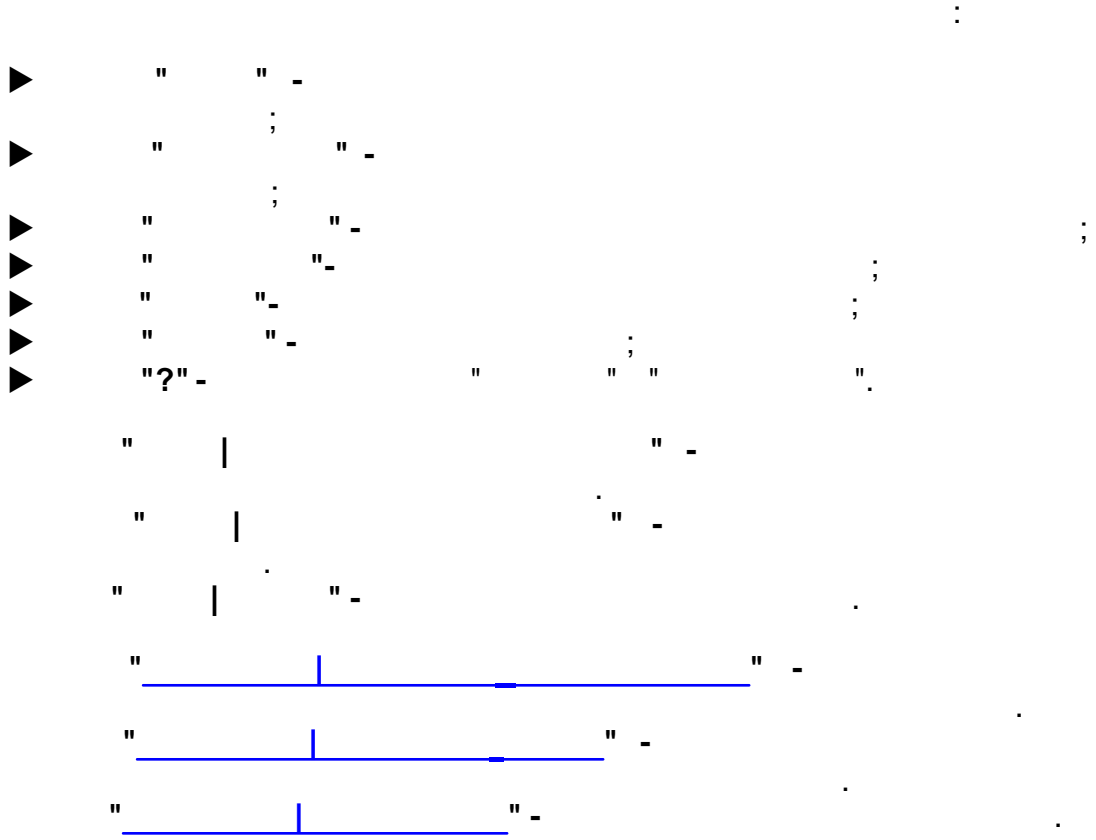
" - ". ,  
 . - , [ ] .  
 10 .  
 - .  
 - .  
 .  
 :  
 / / ). , (

## 2.3

-  
 \SODEK\SMS), , ( : C:  
 unins000.exe.

### 3

#### 3.1



#### 3.2

##### 3.2.1

« »

"..."

« »



### 3.2.2

«

»

modem.ops,

;

"

"

:

..\INI

```

|
( )
( )
,0- ) DCD (1- DCD( )
,0- ) DSR (1- DSR ( )
,0- ) CTS (1- CTS ( )

```

```

_____ : 'DCD, DSR CTS'
" "
```

### 3.2.3

"rdtsms.ini"

```

" |
"
" |
"
```

**[Directories]**

LOGFILE=reader.log

ArchivSMS=C:\SODEK\SMS\ArchivSMS

**[CONNECT]**

COM=COM1

INITCOM=19200,N,8,1,BIN,IGP0,TO700

PROTOKOLTO=100

( .)

FirstSignTO=6000

NextSignTO=5000

IdentFirstSignTO=3000

PHONESMSCENTRE=+79104999104("MTS  
RUS")PHONESMSCENTRE1=+79104999104("MTS  
RUS")**[MODEM]**

TYPE=Wavecom

**[DEVICE]**DEV1=0311|000012345678|+79100571712|  
- |00000000DEV2=0173|000012345678|89100571711|  
|00000000DEV3=0004|000012345678|89100571708|  
|00000000

---

!

!

### 3.3

" " .

."

." / .

," .

01 = EDIS-LIS-200,

00 -

," 01-

."

."

UNIX (

01.01.1970).

12

„0 – 9“

CRC32

CRC32-

“ ”  
“ ”  
“ ”

“ ”  
“ ” 270"

3.3.1

“ ” “ ”

270.

270.

270.

. .

,

270.

,

.

.

.

"

"

.

"

"

.

.

.

"

"

.

"

"

.

"

"

"

"

3.3.2

:



"

"

-

,



,

:



"

"

,



:



"

"

:

,

▶ ; , " "

▶ , " ,

▶ , " "

▶ " "

▶ , .

3.4

WAVECOM SUPREME

20 . ,

' " " :

▶ ; ,

▶ ; ,

▶ ;

▶ ; , ,

▶ ;

" "

.

" "

        "

        " 270"





## 3.4.2

Тип памяти: "SM"; Объем памяти: 20 СМС; Всего в памяти: 5 СМС

Проверить

" "

" "

" "

3.4.3

" "

" "

270.

270.

270.

" "

3.4.4

```

      :
▶ " " ; -
▶ " " ;
▶ " " ;
▶ " " ;
      ,
      ,
      !
      ,
      ! (
"REC READ"),

```

3.4.5

```

      ,
      .
      :
▶ " " ; -
▶ " " ;
▶ " " ;
      " " "
      ;
      !
      ,
      .
▶
      .

```



! "REC READ"),

".



"

3.4.6





3.5.1



4

270 -

ELSTER GmbH 270, LIS200.  
270,

	<b>LIS200</b>
	RS232, Tx, Rx, RTS, CTS, Ri
	RS485(4 ), T +, T-, R+, R-
	61107-2001
	E,7,1 ,7,1 N,8,1
	300 19200 / ,

4.1

LIS200

270

):

(

( )	<b>2</b>	
LIS200	2 7( GSM )	Rx, Tx, RS, CS, Ri GND.

( )	2	
	3	Rx, Tx, GND. . . , .
	5	Rx, Tx, GND. . . , .

: 2 " "

" " "

':

**LIS200:**

1. " " ;
2. DCD ( ) ;
3. DTR ( ) ,
4. DTR On;
5. ;  
DSR ( ) ;
6. " "( )  
).



\_\_\_\_\_ :

1. " " ;
2. ;
3. ;
4. DTR (
5. ); DSR ( )
6. ;
7. " "(
8. ).

\_\_\_\_\_ :

1. " " ;
2. DTR (
3. );
4. ;
5. " "( ).

4.2

260

270

	<b>LIS200</b>			
2	GSM (7)*	3	5	
2	19200	19200	19200	
2	0	0	0	**
2	1	1 2 (02 FE260)	1 2 (02 FE260)	
	1	1		

3-5

GSM-

2,

GSM.

:02:708 02:709 .

\*\* "0" = 7e1 = 7

, 1 -

"1" = 7o1 = 7

, 1 -

"2" = 8n1 = 8

"0" (7e1) -

, 1 -

61107-2001.

### 4.3

SMS.

" "WinPADS" - "

W1 01:0180.0 (12345678) #

#

W1 03:0171.0 (00000000) #

#

8

W1 01:0D60.0 (+79100571712) #

W1 01:0D61.0 (3) #

W1 01:0D62.0 (100000) #

W1 04:07E4.0 (5) #

#

W1 04:07EA.0 (2) #

#

W1 02:073B.0 (20) #

#

---

W1 02:0743.0 (+79104999104) # SMSC-Zugangsnummer D1-Netz

# - -

W1 2:0710.0 (15000)	#		15s (15000ms)	
W1 2:0711.0 (15)	#		15s GSM	
W1 2:0712.0 (30)	#			30s
W1 2:0713.0 (30)	#	-	30s	

5

270

270,

270.

5.1

-

-

SMS

270

"

"

270

270

- 
- 
- 
- 

;

;

;

7

:

- 
- 
- 

;

;

5.1.1

	(H) (U)			
	(T)			
1	H		0-9, a.-f, A-F	01 = EDIS-LIS-200,

2			0-9, a.-f, A-F	
3	H		0-9, a.-f, A-F	
4			0-9, a.-f, A-F	
5-16	H		0-9	
17-24	H		0-9, a.-f, A-F	UNIX- 200 LIS-
25-xxx	U		ASCII	0x00 - 0x127
(xxx+1)– (xxx+1+8)	T		CRC32	

CRC32

## 5.1.2

„1“ = „EDIS-LIS200,“.

„0–9“, „a“–„f“ „A–F“ 0.

„0–9“, „a“–„f“ „A–F“ 0.

12 „0–9“

01.01.1970). UNIX (

8 „0–9“, „a“–„f“ „A–F“ 0.

125

LIS200

«<».

«>».

LIS200

: 01:0200.0 -> 1:200.

LIS200

:(00:00:00)

CRC32-

$x^{32} + x^{26} + x^{23} + x^{22} + x^{16} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^5 + x^4 + x^2 + x + 1.$

: 0234ABCD

5.1.3

„1 = EDIS-LIS200,

61107 (IEC1107).<sup>„\$“</sup>

1		
2		
3		
4	«                      »	«                      »
5		
6		
7	(                      )	



Enter.

- 8.
- 9.

HyperTerminal.

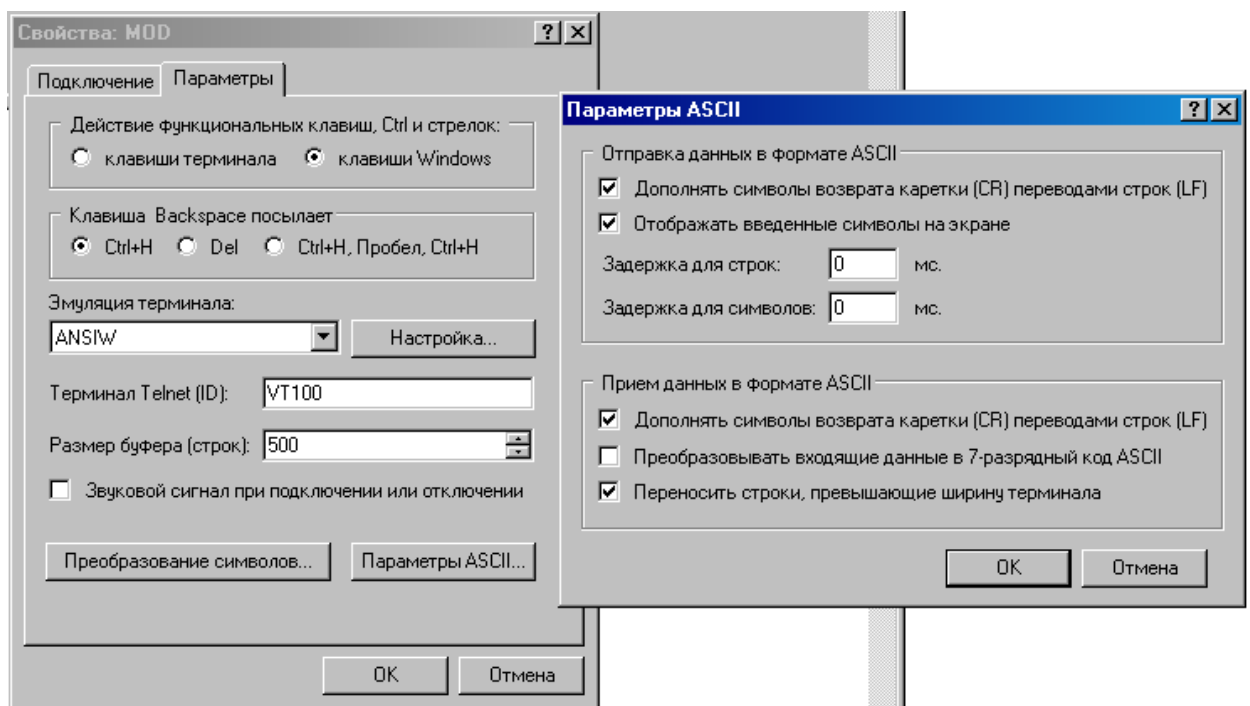
( , )

## 5.2.2

### " HyperTerminal "

HyperTerminal

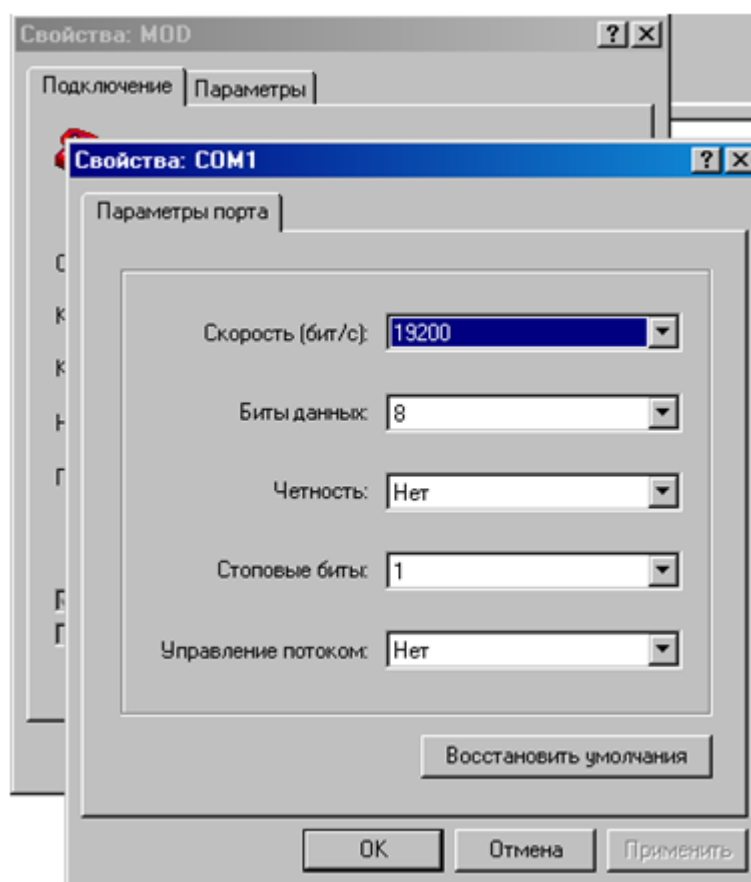
1. ;
2. ASCII ;



3. ( , ) ;
4. ,



	<b>LIS200</b>
( / )	19200
	7
	(Even)
	1



### 5.2.3

AT-

AT-

AT-

```

:
1. AT ( ,
      ).
      ( A/).
      (AT at, At).
AT- ,
AT- .
2. , , 40
.
.
3. <Enter>.
.
4. AT-
      ( . . ,
      AT). ,
      ;
      , ,
      <BackSpace> (" ")
      .
AT. ,
      ,
      .
      ,
      .
      40- ,
40 ,
      D ( ,
      , 39 ( , AT, D
      ), , <Enter>.
      , D
      ,
      .
      ,

```

Enter.

at.

```
_____ : &f e0
:
at&f[Enter]ate0[Enter]
```

## 5.2.4

```

SMS 270 "HyperTerminal"
"WAVECOM FASTRACK SUPREME".
SMS
( _____! ) SIM-
,
1. HyperTerminal _____
2. [at] Enter.
3. [ ],
[at+cnmi=0,1,1,1,0] Enter.
[ ],
4. [at+csmp=17,169,0,0] Enter.
[ ],
5. [at+cmgf=1] - 1 Enter.
[ ],
6. [at+cscs=+79104999104] Enter.
[ ],
7. [at+cmgs=+79100571710] Enter.
[ >]
8. <ctrl+Z> (0x1A)/
9. SMS - ,
+CMGS: 5.
```

## 5.2.5

```

SMS 270 "HyperTerminal"
"WAVECOM FASTRACK SUPREME".
1. HyperTerminal _____
```

2. [at] Enter.
3. [ ],  
[at+cmgf=1] Enter.
4. [at  
+cmgl="ALL"] Enter.
5. Enter. [at+cmgr=1]  
1.

SMS 270 "HyperTerminal"  
"WAVECOM FASTRACK SUPREME".

2. HyperTerminal \_\_\_\_\_
2. [at] Enter.
3. [ ],  
[at+cmgf=1] Enter.
4. [at  
+cmgl="ALL"] Enter.
5. Enter. [at+cmgr=1]  
1.

### 5.2.6

SMS "HyperTerminal"  
"WAVECOM FASTRACK SUPREME".

1. HyperTerminal \_\_\_\_\_
2. [at] Enter.
3. [ ],  
[at+cmgd=1,4] Enter. [at
4. Enter. [at+cmgd=3]  
[ ],  
3

### 5.3

" " "0" "1".

0	
1	

**270**

« » 1:  
-  
( );  
-  
- (# ).

**270**

« » 1, 0.  
« » 0  
« » 1  
- (# ).

**270**

« » , 1, 0.  
« » 0  
« » 1  
- (# ) :  
-  
( );  
-  
- (# ).

#### 5.3.1

**270**

;  
- ;  
- ;  
- .

CRC32.

= 01.01.1970)

Unix-Zeit („0“

5.3.2

```

:
          ,          12 ,
          999999999999;
          ,          8 ,
999999999;          4 ,
          ,          12 ,
          999999999999.
          (          )(

```

).

13*	12	11	10	9	8	7	6	5	4	3	2	1
					9	9	9	9	9	9	9	9
	9	9	9	9	9	9	9	9	9	9	9	9
	9	9	9	9	9	9	9	9	9	9	9	9
1	9	9	9	9	9	9	9	9	9	9	9	8

4 , 8 ,  
 12 .  
 13 .  
 ( 270 ) ( ) .

13*	12	11	10	9	8	7	6	5	4	3	2	1
1	9	9	9	9	9	9	9	9	9	9	9	8
	9	9	9	9	9	9	9	9	9	9	9	9
	9	9	9	9	9	9	9	9	9	9	9	9
					9	9	9	9	9	9	9	9

13 , 1  
 4  
 8 .

5.3.3

;  
 ;  
 ;

		,32
2		01
2		01

12	000056473231	
8	5D6E5738	

., max 120		
:		
10	>10:157(0)	
18	10:155(Anr.zeitf1)	
15	10:154(1:140_5)	
15	10:15C(1:140_5)	
19	10:150 (29,07:00:00)	
19	10:158 (29,09:00:00)	
14	10:153(0x2F01)	16 1
10	10:157(13)	

>	
<	
#	
\$	

CRC32



		,8
8	A4B6C2F962	CRC32 Checksumme

### 5.3.4

( ), ( ' ) /

:

:

- ; -

- ( ).

:

- :

- :

- ( ) .

### 5.4

CRC32.

**01010000564733235D6E5738<2:200()4:300()0101E6F4**

01 = EDIS-LIS-200, ;

01 = , 270 - ;

000056473323 = ;

5D6E5738 = , UNIX- LIS-200;

"<" = ;

2:200()4:300() = ;

0101E6F4 = CRC32;

270:

**01010000564733235D6E57382:200(1232.234)4:300(322345)0101E6F4**

01 = EDIS-LIS-200, ;  
 01 = , 270 - ;  
 000056473323 = ;  
 5D6E5738 = , UNIX- LIS-200;  
 2:200(1232.234)4:300(322345) = ;  
 0101E6F4 = CRC32;

#### 5.4.1

« »=0: ,  
 .  
 2:200 4:300  
 .  
 :

2	01	-
2	00	
12	000056473534	
8	5D6E5738	
18	>2:200(12345.5678)	
10	4:300(0.0)	( )
8	0101E6F4	CRC32

#### 5.4.2

« »=1:  
 .  
 2:200 4:300.  
 .  
 :

2	01	-
2	01	
12	000056473323	

8	5D6E5738	
8	<2:200()	
7	4:300()	( )
8	0101E6F4	CRC32

:

2	01	-
2	01	
12	000056473324	
8	<b>644DE342</b>	
15	2:200(1232.234)	( )
13	4:300(322345)	
8	0101E6F4	CRC32

:

:

2	01	-
2	01	
12	000056473324	
8	644DE342	
15	2:200(1232.234)	( )
10	4:300(#5)	( )
8	0101E6F4	CRC32

2:200

,

4:300

5-

### 5.4.3

«

»=1:

,

2:200 4:300

:

.		
2	01	-
2	01	
12	000056473323	
8	5D6E5738	
18	>2:200(12345.5678)	( )
10	4:300(0.0)	
8	0101E6F4	CRC32

:

.		
2	01	-
2	01	
12	000056473324	
8	<b>644DE342</b>	
15	2:200(#0)	( )
13	4:300(#5)	
8	0101E6F4	CRC32

4:300

5 (#5)

## 5.4.4

«

»=1:

,

2:200 4:300

:

.		
---	--	--

2	01	-
2	01	
12	0000564735340	
8	5D6E5738	
18	>2:200(12345.5678)	
10	4:300(0.0)	( )
9	<10:150()	( )
8	11:150()	( )
8	0101E6F4	CRC32

2	01	-
2	01	
12	000056473324	
8	644DE342	
8	2:200(#0)	(# )
8	4:300(#0)	(# )
15	10:150(09:00:00)	( )
13	11:150(17:00:00)	( )
8	0101E6F4	CRC32

2	01	-
2	01	
12	000056473324	

8	644DE342	
8	2:200(#0)	(# )
8	4:300(#5)	(# )
15	10:150(09:00:00)	( )
13	11:150(#5)	( )
8	0101E6F4	CRC32

5(#5) , 4:300 , 5(#5)  
 , 11:150 .

## 5.4.5

" " .  
 :

2	01	-
2	08	
12	000056473321	
8	5D6E5738	
18	>2:200(12345.5678)	
10	4:300(0.0)	( )
8	<1:400()	( )
8	0101E6F4	CRC32

: :

2	01	-
2	08	,

12	000056473322	+1
8	644DE342	
4	\$(4)	
8	0101E6F4	CRC32

## 5.4.6

SGERG-91.

SGERG91:

- Ho.n

- H2

- N2

- Rhon

:

2	01	-
2	02	
12	000056473342	
16	00003B4C5D6E5 738	
13	>11:314(1.29)	( )
13	14:314(10.00)	
14	15:314(0.6400)	
14	10:314(10.300)	
8	0101E6F4	CRC32