

	.....	2
1	.....	3
2	.....	3
	2.1	3
	2.2	4
	2.3	4
	2.4	5
	2.5	6
	2.6	8
	2.7	8
3	.....	9
4	.....	9
	4.1	9
	4.2	9
4.3	.....	10
5	.....	11
	5.1	11
	5.2	12
6	.....	29
	6.1	29
	6.2	29
	6.3	30
	6.4	30
7	.....	30
	7.1	30
	7.2	RS-232 31
	7.3	31
8	.....	31
9	.....	31
	9.1	31
	9.2	32
	9.3	32
	9.4	32
	9.5	32
	9.6	32
	9.7	33
	9.8	36
	9.9	36
	9.10	37
10	.....	37
	1.	39
	2.	() 41
	3.	42
	4.	-22 47

’ -22 (’ - “) 2.1,
“ ’ (’
27.12.2005 618).



“ ”

:

76000, ’ . - “C ”, 67, 38, 39,
/ (0342) 775-414, 775-415
e-mail: slot@slot.com.if.ua

1

1.1

-
-

-
-

-
-

-
-

5542;

2939.

1.2

1.3

80,

30319.2 (

-
-

-
-

-
-

1.4

1.5

"ib",

GERG-91

)

- 0,084

25 °

60 °

8,0

60 °

- 0,66 / 3

- 0 %

NX19

)

1,05

15 %

1,05 / 3;

15 %

30319.2;

50-213-

50-213-80

22782.5,

22782.0,

1 "ibIIAT5" "

4

" 0.00-132-01"

4

1 "ibIIAT5,

(

),

" "

1 "ibIIAT5,

(

),

2

2.1

421412.002.

-
-

-
-

-
-

-
-

-
-

:

20 °

50 ° ;

- 95 %

35 ° ;

- 84

107

:

- 255 × 185 × 95 ;

- 2,0 ;

- IP66.

: 400 / (50 ± 1) ;
 0,1 25 .
 :
 10...15
 0,15 .
 :
 - 10 000 ;
 - 8 .
 , 2.1.

2.1. -

	U ,	U ,	I ,	L ,	C ,
-22	15	32	250	1,0	1,0
	24	48	160	1,0	0,5
	±15	32	250	1,0	1,0

1. U , U , I -
 2. , L -

2.2

- 4-20 0-5 26.011
 ;
 - , 40
 60° 100 , Cu 100, 100 Pt 100
 2858;
 - , (-)
 " 1 " " - 500 " "
 (" ") - 30 , - 10 .
 (EPSON ESP/P,
 RS-232 1200 / ; 2400 / ; 4800 / 9600
 / .

2.3

) ; (-
), ;
) ;
) ;
) , ;
) ;
 , , ,
 , 480, 1150 126 ; ,
) .
 - , 1;

)
 (, -) (" " 1;
) ()
 (2046 -) - , ,
 2;
) (-
), () , (- 255
 .) - 1;
) , :
 - ;
 - ;
 - ;
 - ;
 2;
 - ;
) :
 - 0,66 / 3 1,05 / 3;
 - 0 % 15%;
 - 0,9 1,0;
) - ,

2.4

2.4.1

$$q = 3600 \cdot V \cdot f, \tag{2.1}$$

q - , 3/ ;
 V - , 3;
 f - , .

2.4.2

$$V = n \cdot V, \tag{2.2}$$

V - , 3;
 n - ;
 V - , 3;

2.4.3

$$W = V_p + W_0, \tag{2.3}$$

W - , 3;
 V_p - , 3;
 W_0 - , 3.

2.4.4

, :

$$q = \cdot q_p, \tag{2.4}$$

$$V = \cdot V_p, \tag{2.5}$$

$$\begin{aligned} q - & , & , & ^{3/} ; \\ q - & , & ^{3/} ; \\ V - & , & , & ^{3/}; \\ V - & , & ^{3/}; \end{aligned}$$

$$= \frac{p}{0,101325} \cdot \frac{293,15}{t + 273,15} \cdot \frac{1}{K} -$$

$$\begin{aligned} p - & , & ; \\ t - & , & ^{\circ} ; \end{aligned}$$

GERG-91

NX19

50-213-80,
30319.2.

2.5

2.5.1

2.5.2

q_p

2.5.2

q_p

" \ " (1): "Q " "Q " "Q "

2.5.2.1

$q > "Q "$

- $q = q$, $q -$ () - " , " " ; - $q = "Q "$ - " , " = " " () .

q ,

" $Q > Q$ " -

2.5.2.2

"Q " q "Q "

$q = q$,

"Q= " -

2.5.2.3 “Q” < q < “Q” :
 - q = “Q” ;
 - q = q - “Q” , “=” ;
 q , “Q < Q” -

2.5.2.4 q “Q” q = 0,
 “Q=0” -
 (“ ”) .

2.5.2.5 “Q” , “=” , q = “Q” ,
 q “Q=” -

2.5.3

“ ” \ \|” (1): “P” -
 - “P” “P” -
 - “P” ;

2.5.3.1 >” ” ” > ” -
 - = - ” ” ;
 - = () - >” ” “ ” , “=” ” ;
 - = ” () - >” ” “ ” , “=” ” =

2.5.3.2 “ ” ” ” =

2.5.3.3 <” ” ” < ” -
 - = - , 0,84 ;
 - = () - <0,84 “ ” , “=” ” ;
 - = ” () - <0,84 “ ” , “=” ” =

2.5.3.4 “ ” , “=” ” , “=” ” .

2.5.4

2.5.4 t t
 “t” \ \|” (1): “t”

2.5.4.1 t >” t ” ” > t ” -
 - t = t - t 60° ;
 - t = t () - t > 60° “ ” , “=” ” ;

" - t = "t " () - t > 60 ° " , " =
 " .
 2.5.4.2 "t " t "t " "t= " -
 , t = t .
 2.5.4.3 t < "t " "t<t " -
 , :
 - t = t - t t , t = 25 ° (23,15 °) -

50-213-80 (GERG-91 . NX19 .);
 - t = t () - t < t " , " = " ";
 - t = "t " () - t < t " , " = " " .
 2.5.4.4 "t, " = " " ,
 "t= " - , t = "t " .

2.5.5

K
 "K= " - K ,
 :
 - = () - " , " = " ";
 - = " " () - " , " = " " ,
 - "K= " -
 , = .

2.6

2.6.1

:
 - - 0,084 8,0 ;
 - 40 ° 70 ° ;
 - 0^{3/} 99999^{3/} ;
 - 0³ 99999999³ .

2.6.2

:
 - -6- 0,00001 ;
 - -4- , 0,01 ° ;
 - -6-
 0,00001;
 - -5- , ;
 - -8- ,
) : 1,0³; 0,1³; 0,01³; 0,001³ .

2.6.3

:
 " , ' : : " ,
 - ; - (, , , , ,
 , , ,) ; - ; - (, , ,
 , , ,) ; - ; - ; - .

2.7

2.7.1

$\pm 0,15\%$ - $0,2^\circ$;
 $\pm 0,2\%$ - $0,05^\circ$ $0,2^\circ$,
 $\pm 0,02\%$ - , .
 2.7.2
 $\pm 0,1\%$, .
 2.7.3
 $\pm 0,1^\circ$.
 2.7.4
 ± 5 24 .
 2.7.5 - 2 .

3

3.1

3.1 -

		-
421412.002-02	OE-22	1 .
421412.002-02	OE-22 .	1 .
421412.002-02	OE-22 .	1 .
421412.004 1	O Master 06	1 .
421945.002		1 .

4

4.1

4.1.1

4.1.2

()

- 66. ,

, p 1 , , ,

4.1.2.1 p , - p

- PG7 - 3,0 6,5 ;
 - PG9 - 4,0 8,0 .

! IP66

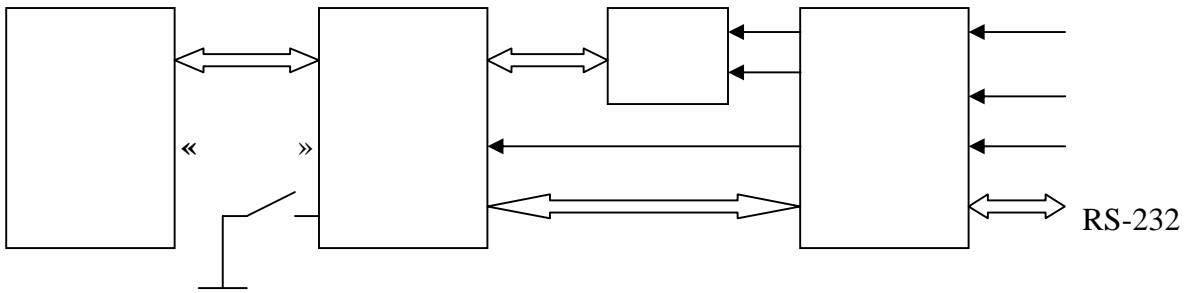
4.1.2.2 1 , :

- 1.
- 2.
- 3.

4.2

(4.1) :

FLASH , / , USART SPI
 16- ;
 - RS-232;
 - ;
 - " " ;
 - ;
 - (3) .



4.1 -

, , , , ,
 - ,
 .
 ((2.1 - 2.5) , , ,
 , , , , ,
 , , , , ,
 () ,
 FLASH (2 16
).
 , RS-232
 « S1 " " "1" - , (1).
 »

4.3

" ,
 22782.5, 22782.0,

"ib",

"1 ibПAТ5" "

5

5.1

p

. 5.1

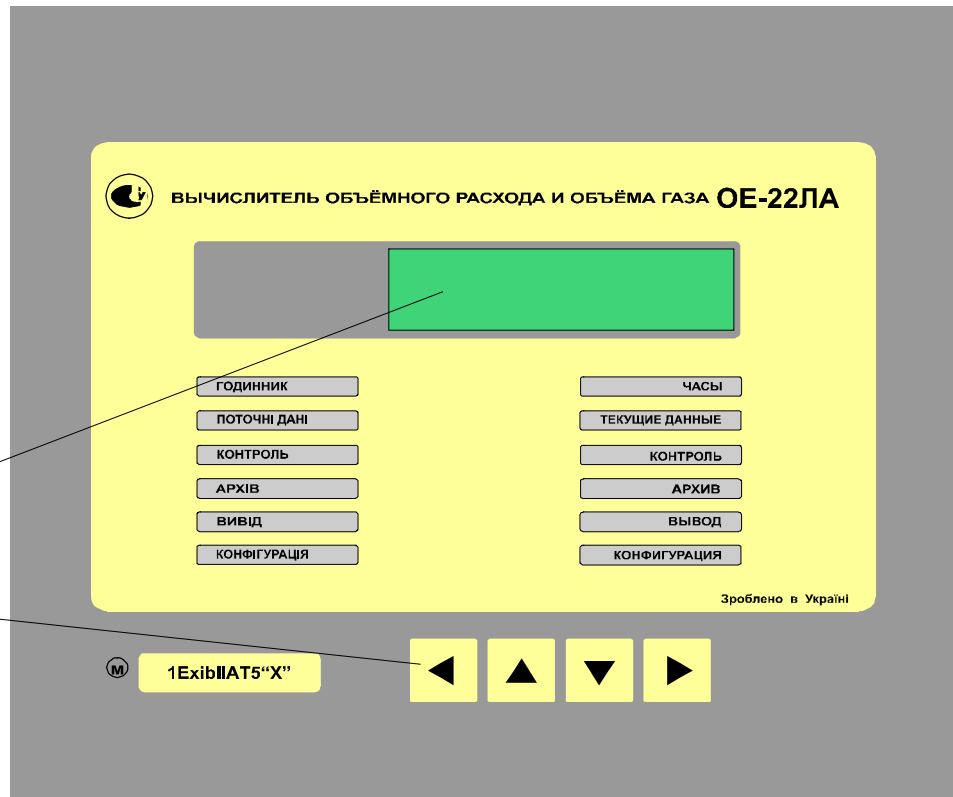
- . 1

- . 2,

4

1

2



5.1 -

(5.2)

16

5.2,

"09"

9

0,

"19" -

9

1.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0																
1																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F

5.2 -

"10"

:

"■",

- "■"

"00"

"Г" (

)

1

"Г"

() – “” (). 2,

5.2

5.2.1

5.3

01, , 2006 , 09 : 01 : 01
V, ³ 99999999.

5.3 -

")

2.6.3) , "V" , (" "

(" - "W"

□ □.

00
□.

"\",

□

",

,

00

□.

5.2.2

" "

(5.4)

1...N,

" "

"1F"

"<".

2.

01, , 2006 , 09 : 01 : 01	\ 1 2	...	\ N
------------------------------	----------	-----	-----

5.4 - " "

" "

"10"),

" "

-

□.

□ / □

("

"/"

)

5.2.3

" (5.5) "

9

V, ³
99999999.

W, ³
99999999.

P,
9.99999

t,
±99.99

Qc, ^{3/}
9999.9

Q, ^{3/}
9999.9

9.99999

9.99999

, : : :

()

()

2.5.3

2.5.4

2.5.2

2.5.5

5.5 -

"

"

“ ”

“ ”

(2.5),

“ ” -

"

"

□
□

00

□ / □

“ ”/”

5.2.4

" (5.6) "

" \ " " \ "

\

\

5.6 -

"

"

"

"

□ / □

□,

□

5.2.4.1

" (5.7) "

\

"

:

\\	?
\\	,=0
\\	,=

“\\ ” ,
□.

5.2.5.1 “\\ ” “ \ ” 8
(5.12) 3

1) “\\ ”, V, W, P, t -

, V W -
/ 0C...0F “ V”, “ W” “ T”
“\\ = ” “\\ = ”;

2) “\\ = ”, -
- “q Q ” “Q < q Q ” (“Q q Q ”) - “
\\Q ” = “ ” (“ ”), “q = Q ”;
- “P p P ” “ = P ”;
- “t t t ” “t = t ”;
- “ = ” « = »;

V W - ;

3) “\\ = ”, - “\\ = ”;

“q > Q” - “Q < q < Q ” - “ \ \\Q ” = “ ”,
- “ < ” “ > ”;
- “t < t ” “t > t ”;
- “ = ”;

V W - ;

4) “\\Q>Q ”, - V W -

5) “\\Q<Q ”, - V W -

6) “\\P>P ”, - V W -

7) “\\P< ”, - “ ”

, V W - ;

5.2.5.2 (" 5.13) M , " N (1) ; (, " 16 (2); "V" , "W"

5.2.5.1.

1		...	N		V, 9999999.9		W, 9999999.9	
|| , : :	|| 1 2	...	||	|| V, 9999999.9	||	|| W, 9999999.9	...	...
M			N		V, 9999999.9		W, 9999999.9	
|| , : :	|| 1 2	...	||	|| V, 9999999.9	||	|| W, 9999999.9	...	...

5.13 - "\ " " \ "

5.2.5.3 (" 5.14) " " \ " , "C" " " 1) ; " "V" , "W"

5.2.5.1.

|| , : :	|| : ,	|| : ,	|| V, 9999999.9	|| W, 9999999.9
...
|| , : :	|| : ,	|| : ,	|| V, 9999999.9	|| W, 9999999.9

5.14 - "\ " " \ "

5.2.6 " " (5.15) , .

\	-	" "
\	-	" " , " " " "
\	-	" "()
\	-	" "()

5.15 - " "

\\ Q2, .	(*)	2,	:	-	;	-
\\ ? GERG	(	)	,		:	NX19; GERG; 50
\\ P?	()	,	:	-	;
\\ t?	()	,	:	-	;
\\ Q?	()	,	:	-	;
\\ ?	;	-	()	:	-
\\ Q ?	q	Q	;	Q	-	Qo<q<Q
\\ ?	;	-	p, t, q	()	:
\\ Rt?W100 1.428	W ₁₀₀	100 ;1,391-	100 ;1,385 - Pt100 (*)	,		: 1,426 - Cu100; 1,428
\\ IP? 4-20	,					: 4-20; 0-5 (*)
\\ V ? ³ 0.1	:	1,0; 0,1; 0,01; 0,001	()	,	
\\ ?	,	:	;	()	
\\ ? 03	(	)	,	(	)	: 00; 01; 02; 03, " ? " = 00 -
\\ .? 09	,					: 00 - 23 (
\\ .? 03	,					: 01 - 28 (
\\ ?Hex *****	FFFFFF	(	- 6-	)		: 000000 -
\\ , .)	«	»:	-	;	- «

5.26 - " | "

" " (" " " " " ")

5.2 , ()

1. " V ?³ !
2. " = " ? "
3. " » « | || , .»

5.2.7.9 " | "

(5.27) " | "



□ □

“?”

“ .?”

“ ?”

“ ?”

: ± 2 59 (

5.27 - " \ "

“\ .?”

5.28).

“?”

□

□

□ □

“ .?” ± :	“ .?” ± :	“ .?” ± :
--------------	--------------	--------------

(+/-) (0-2) (0-59)

5.28 - " "

1. () () ! ,
2. () () ,

“\ ?” “\ ?”

“ ” (5.29) “ ” (5.30)

□

“ ?” - : :	“ ?” : - :	“ ?” : : -
---------------	---------------	---------------

(0-23) (0-59) (0-59)

5.29 - " "

“ ?” - - -	“ ?” - - -	“ ?” - - -
---------------	---------------	---------------

(0-30) (1-12) (1-31)

5.30 - " "

“ ”.

(2-3) " ,

□

), " : : " (- ; - ; -
) . " : : " (- ; - ; -

¶ ?
¶ ?
¶ ?Q2

(*)
 (*)
 2 (*) ()
 5.31 - " \ "

”\ ” ? ”
 ”\ ” ? ”

”\ ?Q2”

“Q2, .”= () – “Q2, .”=
 () ; “Q2, .”= () – “Q2, .”=
 () .

6

6.1

() ()
 ()
 ;
 ;
 (“10”)

“■”,

“▲”.

2046
 (5.2.5.2).

2.

6.2

6.2.1

"Q<Q " –
 “Q ”, “\Q ”, “=” ”, “\Q ”, “=” ”.

(
"FLASH=" -
" = " -
" = "?" -

" = - ")

" = " -
“\ , ”

7

7.1

-LRS232 ("), OE-RW (");
1000 ,
RS-232.

OE-RW

OE aster 06,

7.2

RS-232

- ;
- ;
- 1200 / , 2400 / , 4800 / 9600 / .

7.3

Hayes-

- ;
- RS-232
- 9.4;

7.4

(EPSON ESC/P, RS-232
- 866).
- ;
- 9.4;

" "

8

8.1

1 12.2.007.0.

8.2

8.3

“ ” (), “ ”
 () , 12.2.007.0;
 - 7.3 " " 0.00-121.98 (" , "
 ;
 - 2,5 ²
 - 4 ;

8.4

8.5

22782.0, 22782.5, "ib",
 1 b 5"X"

8.6
12.3.019.

9

9.1

9.2

9.3

10 15 .
 " " - 500 " 10 " 50 ' 1 ,
 " " - 500 .

9.4

1.
 2.

- ;
- ;
- ;
- ;
- ;
- ;
- ;

14192,

, “ ”, “ ’ , !”, “ ”.

5 40 80 %.

9.5

9.6

“ib”, 22782.5, 22782.0, “1 ibIIAT5” “ ”
0.00-132-01” 4

9.7

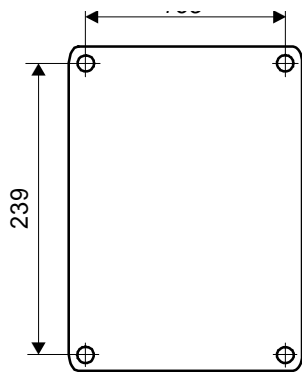
9.7.1 ()

9.1. () 4.

9.7.2

9.7.3

9.1...9.5. “ 1” ’
9.7.4 4.1.2.1.
RS232
0,35 2 2,5 2
4.1.2.1.



9.1 -

9.7.5

4.

9.7.6

4

9.7.7

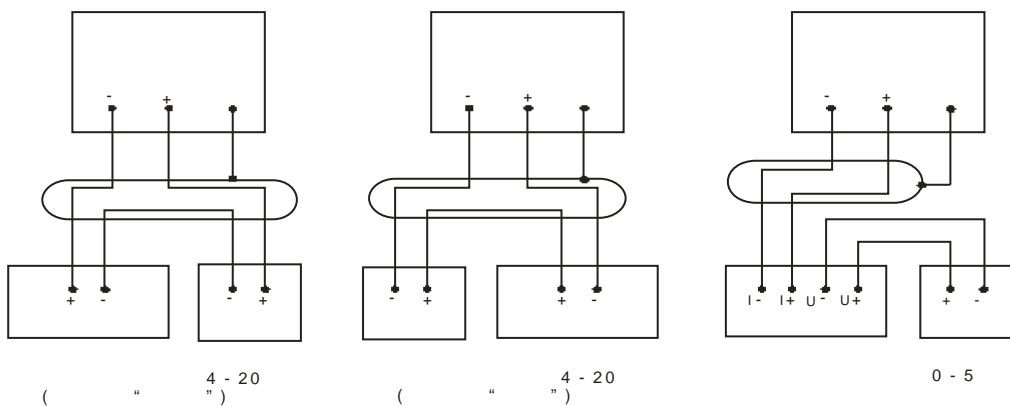
2,5²



9.1 -

		()
1		
1	+	1 (1)
11	-	
3	+	2 (2)
3	-	
11		
1.	:	.9.2.
2.		

9.2.



9.2 -

		()
1		
22 21 21	F 0V	1 (Fp1)
23 21 21	F 0V	2 (Fp2)
-		

		()	
1			
17 16	+I +U		1 (t1)
17 16 12	-U -I		
15 14	+I +U		2 (t2)
14 15 12	-I -U		
:			
1.		1	(15- 14).
2.			

9.4 - RS232

	1			RS232	
		DB9	DB25		
TD RD 0V	B21 B22 B20	2 3 5 7 8	3 2 7 4 5	RD TD 0V RTS CTS	, -RW
TD RD 0V	B21 B22 B20	3 2 5 7 8 4	2 3 7 4 5 20	RD TD 0V RTS CTS DTR	
	B23 20				

9.4

TD RD 0V	B21 B22 B20	2 3 5 7 8	3 2 7 4 5	RD TD 0V RTS CTS	
-					

9.5 -

1		
19 B18	+ -	10 15

!

9.8

,

.

,

:

-

" " "0" - , "U= ", ,

2-3 2 20 " " ";

- " (5.2.7), -

,

;

-

,

" \ " (5.2.2)

;

"

"

()

;

5.2.7.11 " \ \ 5.2.7.5;

W0 \ 5.2.7.2;

"

" " "1" - ,

"

"

,

" = ";

9.9.

!

1.

:

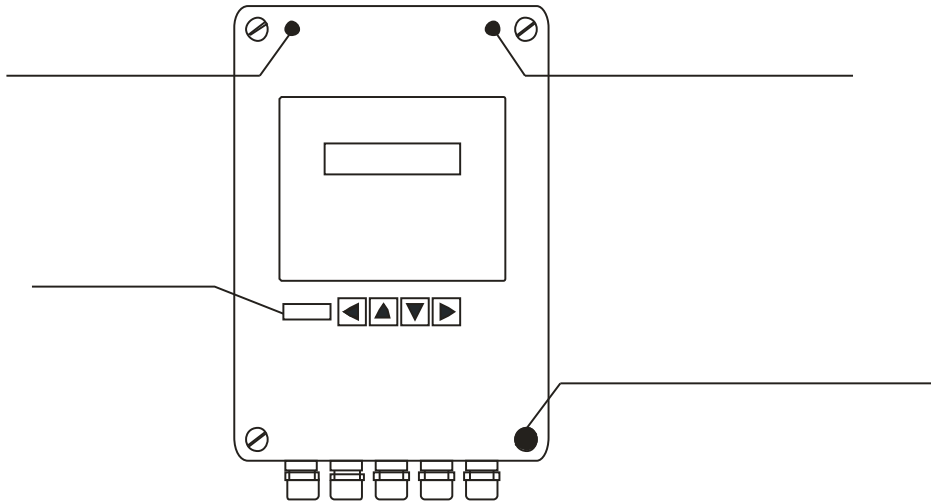
- « \ » - Q < Q < Q ;

- « \ » - < ≤ P ;

- « \ » - t < t .

9.9

(9.3):



9.3 -

9.10

" \ " (5.2.7.2) ;

" " (5.2.1) ;

" (5.2.3), " " (5.2.4)

;

," " " "

-RW " " "

:

;

;

;

;

;

;

;

;



!

.? «l ll ?», «l ll $V_{min, 3}$ », «l ll .? », «l ll
 1. », «l ll ? » «l ll V ? 3», : .? », «l ll

2. , «l ll ? », »,
 3. , «l ll $W_0, 3$ » », ,

10

15150.

15150.

:“ \ ”				
1	?		0..FFFFFF	
:" \ "				
2	Q2, .	2	" "; "	* -
3	,		50; GERG; NX19	*
4	P, .		" "; "	
5	t, .		" "; "	
6	Q, .		" "; "	
7	, .		" "; "	
8	Q , .	Q	" "; "	*
9	, .	p, t q	" "; "	*
10	Rt,W100	W ₁₀₀	1.426 - Cu100 1.428 - TCM100 1.391 - C 100 1.385 - Pt100	*
11	IP,		4...20; 0...5	*
12	V , ³		0,001; 0,01; 0,1; 1,0	*
13	,		;	*
14	,	()	1...4	*
15	..		0...23	*
16	..		1...28	*
17	,Hex		0..FFFFFF	*
18	, .	" "	" "; "	*
:“ \ ”				
19	., / ³		0,66...1,05	*
20	,%		0...15,0	*
21	,%		0...15,0	*
21	,		0,9...1,0	*
:" \ "				
22	P ,		0,1...8,0	
23	,		P /2...P	
24	P ,		0,084..P	
25	P ,		0,084...P	
:" \ "				
26	t ,°		0...+60	
27	t ,°	: 50-13 NX19, GERG-91	-25...t -23,15...t	
28	t ,°	: 50-13 NX19, GERG-91	-25...+60 -23,15...+60	

(2)

, ()

1	=	()
2	=	()
3	FLASH=	()
4	FLASH=	()
5	=	
6	=	()
7	=)
8	=	()
9	U=	()
10	U=	()
11	=	() ,
12	=	
13	=	()
14	=	
15	=	
16	Q=	
17	Q=0	() " "
18	Q<Q	()
19	Q>Q	()
20	Q=	
21	=	
22	<	()
23	>	()
24	=	
25	T=	
26	t<t	()
27	t>t	()
28	t=	
:		
- - .		

(3)

1.

- ;
 a - ;
 q - ;
 q - ;
 p - ;
 p - ;
 p - ;
 t - ;
 t - ;
 V - ;
 , 3 - ;
 , 3 - ;
 , - ;
 . . - ;
 - ;
 - () ;
 - ;
 - () .

2. “ ”

OE22		25333 (" ")
		2.0
		50-213
		09
		01
		03
W100	,	4 - 20
		1.391
«	»	

		.250...
		BK
		B K
	, 3	1.000
		400.0000
		4.0000
	" "	1.0000
		100.0000
	, 3	0.1

		0.68000
		0.50000
		0.13000
		0.50000

		BK
		60.0000
		-25.0000
		10.0000

01.04.05 16:37:22

“ ” \ // , .”= , “ ”

3

3.1 “ ”
:“ \ \|Q ? ”=“ ” “ \ \| ? ”=“ ”

		()			
		01.07.06 09:00:00		01.08.06 08:59:59			
OE22 05333(" "),		2,		- 01,			- 09
.250..., V		= 1.000 3,	q	= 2.500 3/ ,	q	= 400.00 3/	-50
		Xy = 0.0420 %,		= 0.7560 %,		. = 0.6830 / 3	
		, 3	, 3	.	,°	,	
01.07.06 09:00:00	1073.765	0419.000	2.56268	-0.97	0.24258	01 00:00:00	
02.07.06 09:00:00	0972.683	0382.000	2.54629	2.42	0.24750	01 00:00:00	
...	
31.07.06 09:00:00	1084.696	0421.000	2.57647	10.32	0.24647	00 22:59:29	
	30746.600	10503.000				30 22:59:29/00 01:00:31	
	18969.420	07855.000				0004 00:00:00	
	50201.613	18324.000				0034 22:59:59	
=	29501.016	10005.000				30 21:44:35	
\p,t,q=KOHCT	00000.000	00000.000				00 00:00:00	
\q<q	00574.659	00068.000				00 04:21:43	
=	01245.584	00498.000				00 01:14:54	
\q>q	01245.584	00498.000				00 01:14:54	
\p>p	00000.000	00000.000				00 00:00:00	
\p<p	00000.000	00000.000				00 00:00:00	
\t>t	00000.000	00000.000				00 00:00:00	
\t<t	00000.000	00000.000				00 00:00:00	
\K=ABP	00000.000	00000.000				00 00:00:00	
							02.08.06 14:06:55

3.2 :“ \ \|Q ”=“ ” “ \ \| ? ”=“ ”

		()			
		01.07.06 09:00:00		01.08.06 08:59:59			
OE22 05333(" "),		2,		- 01,			- 09
.250..., V		= 1.000 3,	q	= 2.500 3/ ,	q	= 400.00 3/	-50
		Xy = 0.0420 %,		= 0.7560 %,		. = 0.6830 / 3	
		, 3	, 3	.	,°	,	
01.07.06 09:00:00	1073.765	0419.000	2.56268	-0.97	0.24258	01 00:00:00	
02.07.06 09:00:00	0972.683	0382.000	2.54629	2.42	0.24750	01 00:00:00	
...	
31.07.06 09:00:00	1084.696	0421.000	2.57647	10.32	0.24647	00 22:59:29	
	30746.600	10503.000				30 22:59:29/00 01:00:31	
	18969.420	07855.000				0004 00:00:00	
	50201.613	18324.000				0034 22:59:59	
=	29501.016	10005.000				30 17:22:52	
\p,t,q=KOHCT	00000.000	00000.000				00 00:00:00	
=	01416.791	00566.000				00 05:36:37	
\q>q	01245.584	00498.000				00 01:14:54	
\q<q	00171.207	00068.000				00 04:21:43	
\p>p	00000.000	00000.000				00 00:00:00	
\p<p	00000.000	00000.000				00 00:00:00	
\t>t	00000.000	00000.000				00 00:00:00	
\t<t	00000.000	00000.000				00 00:00:00	
\K=ABP	00000.000	00000.000				00 00:00:00	
							02.08.06 14:06:55

3

3.3 :“ \ \| ? ”= ”

	()					
	01.07.06 09:00:00	01.08.06 08:59:59					
OE22	05333(	“ ”,	2,	- 01,		- 09	
.250...	V	= 1.000	3,	q	= 2.500	3/	q
					= 400.00	3/	
	, 3	, 3	.	,°	,		
01.07.06 09:00:00	1073.765	0419.000	2.56268	-0.97	0.24258	01 00:00:00	
02.07.06 09:00:00	0972.683	0382.000	2.54629	2.42	0.24750	01 00:00:00	
...		
31.07.06 09:00:00	1084.696	0421.000	2.57647	10.32	0.24647	00 22:59:29	
	30746.600	10503.000				30 22:59:29/00 01:00:31	
	18969.420	07855.000				0004 00:00:00	
	50201.613	18324.000				0034 22:59:59	
=	29501.016	10005.000				30 21:44:35	
\p,t,q=KOHCT	00000.000	00000.000				00 00:00:00	
\q<q	00574.659	00068.000				00 04:21:43	
=	01245.584	00498.000				00 01:14:54	
\q>q	01245.584	00498.000				00 01:14:54	
\p>p	00000.000	00000.000				00 00:00:00	
\p<p	00000.000	00000.000				00 00:00:00	
\t>t	00000.000	00000.000				00 00:00:00	
\t<t	00000.000	00000.000				00 00:00:00	
\K=ABP	00000.000	00000.000				00 00:00:00	

02.08.06 14:06:55

3.4 “ ” (“ ”, “ ”)

3.4.1 “ ” 2.5 “ , ”

(“ , 3”) (

“ , 3”), (

“ , 3” “ , 3”) (“ ”)

3.4.2 “ = ” “ ”, “ ” “

”:

- “q Q ” “Q < q Q ” (“Q q Q ”)- “

\ \|Q ”= “ ” (“ ”), “q = Q ”;

- “P p P ” “ = P ”;

- “t t t ” “t = t ”;

- “ = ”;

3.4.3 “ = ” “ ”, “ ” “

”:

3.3.2

- “Q < q < Q ” - “ \|Q ” = “ ”,

“q > Q ”;

- “ < ” “ > ”;

- “t < t ” “t > t ”;

- “ = ”;

3.4.4 “ = ” “ ”

3.4.5 “ ”, “ ” “ ” “ “

” “ = ”

“ = ”.

3.4.6 “ ” “ ” (,) , - , .

4. “ ” (- 1)

()

01.03.06 09:00:00 01.08.06 08:59:59

2, - 01, - 09
OE22 05333(“ ”), -50
.250..., V = 1.000 3, q = 2.500 3/ , q = 400.00 3/

, 3 , 3

03.03.05 12:23:16	Xy,%	1,0027	1,0420	22491.352	09015.000
07.03.05 13:31:44	Xa,%	0,7560	0,7820	26970.724	10813.000
10.03.05 15:14:19	RS232, /c	4800	9600	30134.105	12030.000

02.08.06 14:09:07

5. “ ” (- 2)

()

01.07.06 09:00:00 01.08.06 08:59:59

2, - 01, - 09
OE22 05333(“ ”), -50
.250..., V = 1.000 3, q = 2.500 3/ , q = 400.00 3/

, 3 , 3

01.07.06 12:20:01	Q<Q		20628.910		08270.000
01.07.06 16:41:44	Q=HOPM		20742.922		08312.000
08.07.06 22:12:29	Q>Q		48364.478		17734.000
08.07.06 23:27:35	Q=HOPM		47118.894		18232.000

02.08.06 14:17:03

“ ” “ ” ,

:

“ OE-22 05333 N” ,

N- . :

“

“.

