

		.....	3
1		.....	4
2		.....	4
	2.1	.....	4
	2.2	.....	5
	2.3	.....	5
	2.4	.....	6
	2.5	.....	7
	2.6	.....	9
	2.7	.....	9
3		.....	10
4		.....	10
	4.1	.....	10
	4.2	.....	10
	4.3	.....	11
5		.....	11
	5.1	.....	11
	5.2	.....	12
6		.....	28
	6.1	.....	28
	6.2	.....	29
	6.3	.....	29
	6.4	.....	30
7		.....	30
	7.1	.....	30
	7.2	RS-232	30
	7.3	.....	31
8		.....	31
9		.....	31
	9.1	.....	31
	9.2	.....	31
	9.3	.....	32
	9.4	.....	32
	9.5	.....	32
	9.6	.....	32
	9.7	.....	32
	9.8	.....	35
	9.9	.....	36
	9.10	.....	36
10		.....	37
	1.	.....	38
	2.	, ()	41
	3.	.....	42
	4.	-22	46

, , , , -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

GERG-91 NX19 50-213-80,
30319.2 (
0,084 8,0 ;
25 ° 60 ° 50-213-80
23,15 ° 60 ° 30319.2;
0,66 / 3 1,05 / 3;
0 % 15 %.

1.4

1.5

22782.5, 22782.0, "ib",
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

100 , Cu 100, 100 Pt 100 40° 60°
2858;

500 10 (" ") 1 " "

EPSON ESP/P, RS-232
1200 / ; 2400 / ; 4800 / 9600 / .

2.3

480, 1150 126 ;

1;

2046

) () , 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

:

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

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

q - , 3/ ;
 q - , 3/ ;
 V - , 3;
 V - , 3;

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

$p -$
 $t -$; ;

GERG-91

NX19

50-213-80,
30319.2.

2.5

2.5.1

2.5.2

q_p

" \ " (1): q_p
- "Q" ; " " "Q"
- "Q" " " "Q"

2.5.2.1

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

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<Q" -

2.5.2.4

q "Q" $q = 0$,
"Q=0" - () .

2.5.2.5

"Q, " = " " , "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

<" " " " < " -
 ;
 - = - 0,084 ;
 - = () - <0,084 " , "=" ";
 - = " " () - <0,084 " , " =

2.5.3.4

" , "=" " , " = "

2.5.4

t
 " \ \|"(1): "t" "

2.5.4.1

t > "t" " "t>t" -
 ;
 - t = t - t 60° ;
 - t = t () - t > 60° " , "=" ";
 - t = "t" " () - t > 60° " , " =

2.5.4.2

"t" "t" "t" "t=" " -

2.5.4.3

t < "t" " "t<t" -
 ;
 - t = t - t t , t = 25° (23,15°) -

2.5.4.4

"t, " = " " , "t=" " -

2.5.5

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

50-213-

80 (

GERG-91 . NX19 .);

- t = t () - t < t " , " = " ";
 - t = "t" " () - t < t " , " = " "

"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-
0,1³; 0,01³; 0,001³ . (): 1,0³;

2.6.3

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

2.7

2.7.1

:
± 0,15 % - 0,2 • ;
± 0,2 % - 0,05 • 0,2 • ;
± 0,02 % - , , .

2.7.2

± 0,1 % , .

2.7.3

± 0,1° .

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.

1

4.1.2.1

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

IP66

4.1.2.2

1

1. '
2. '
3. '

4.2

(4.1)

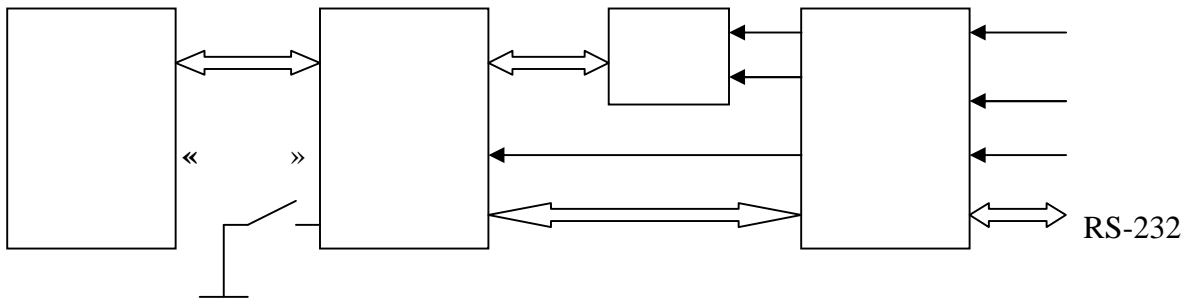
FLASH
USART SPI

16-

RS-232;

" ";

()



4.1 -

(2.1 - 2.5) i

FLASH

(2 16

« S1 " RS-232 " "1" - (1).

5

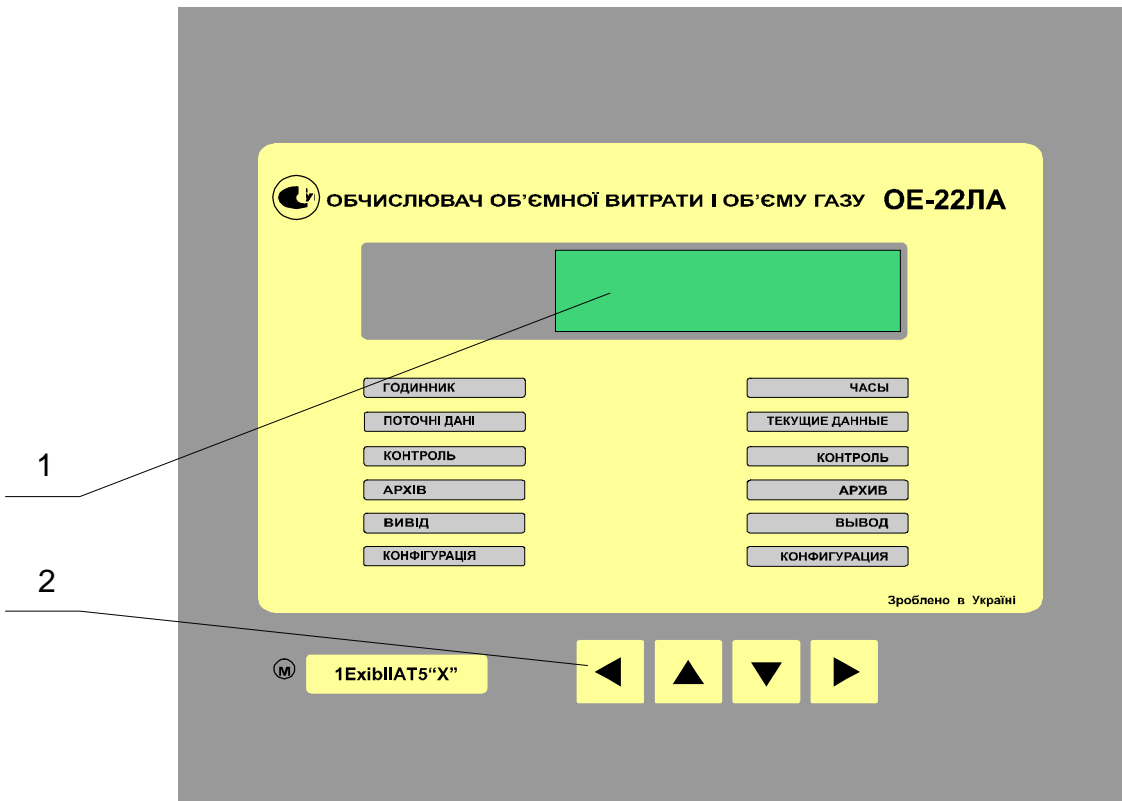
4.3

22782.5, 22782.0, "ib",
"1 ibIIAT5" "

5

5.1

.2, 4 . .5.1 - .1 -



5.1 -

(5.2)

16

9 0, "19" - 5.2, 9 1. "09"

	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"

"T" ()

1

"II"

() - " " ().

5.2

5.2.1

5.3

01, , 2006
, 09 : 01 : 01

V, 3
99999999.

5.3 -

(- 2.6.3) - " " "V" ,
" ; " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "

5.2.2

(5.4)
1...N,
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "

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

5.4 -

" " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "
" " " " "

5.2.3

(5.5) 9

V, ^s 99999999.	- ' , ()
W, ^s 99999999.	- ' ()
P, 9.99999	- , 2.5.3
t, ±99.99	- , 2.5.4
Qc, ^{s/} 9999.9	- ,
Q, ^{s/} 9999.9	- , 2.5.2
9.99999	- ,
9.99999	- , 2.5.5
' : :	- : - ; - ; - ; -

5.5 - " "

“.” “ ” (2.5),

“ ” - “ ” (2.5),

“ ” - “ ” (2.5),

5.2.4

" " (5.6) , :

\

\

5.6 - " "

" " □ □ □ □

5.2.4.1

" \ " (5.7) :

- " , " - "IP, " - "NP" - (2.5)

“t, ° ”, “Rt, ” - , (2.5) “Nt “ - ;

3/ " "fx, " (2.5) "Q,

\\ P, 9.99999	\\ IP, 99.999	\\ NP, 65565
\\ t, ±99.99	\\ Rt, 99.999	\\ Nt, 65565
\\ Q, ^{3/} 99999.	\\ fx, 9.99999	

5.7 -

5.2.4.2 " \ " (5.8)

\\ , / ^s +9.9999E±8
\\ Xy,% +9.9999E±8
\\ Xa,% +9.9999E±8
\\ ±9.9999E±8

5.8 - " \ "

5.2.5 " " (5.9)

\\
\\
\\

5.9 - " "



5.2.5.1

(5.12) 3 8

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 > 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 - , , ;

8) "\t>t" , - " V W - , , ;

9) "\t<t" , - " V W - , , ;

10) "\ = " , - " V W - , , ;

11) “*Q,t,P= ”, - “ ”, V , W - , , .

“ = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”	“ , 9.99999 ”	“ t, ° ±99.99 ”	“ , 9.99999 ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”
“ = = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ = = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ Q>Q = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ Q<Q = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ P> = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ P< = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ t>t = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ t<t = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ K=ABP = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					
“ *P,t,Q= = : : ”	“ V, 3 9999999.9 ”	“ W, 3 9999999.9 ”					

5.12 - “\ ” “ | ”

“\ ” = “ ”, “*Q<Q ”.

“ V, 3 ” “ W, 3 ” “ ”

“ ” “ ”

“\ ” “ ” “U= ”

5.2.5.2 “\ ” “ ” “ ” “ ” (5.13) M (”) N

- 16 (1) ; (, , “V” , “W”

5.2.5.1.

1		...	N		V, 3 9999999.9		W, 3 9999999.9		
|| , , : :	|| 1 2								
...		
M									
|| , , : :		|| 1 2		...		|| V, 3 9999999.9		|| W, 3 9999999.9	

5.13 - "\\ " " \ "

5.2.5.3

"\\ " " \ " (5.14) ,

(" 1) ;

" " " "

" , " 1;

- , "V" , "W"

5.2.5.1.

|| , , : :	|| : ,	|| : ,	|| V, 3 9999999.9	|| W, 3 9999999.9
...

|| , , : :	|| : ,	|| : ,	|| V, 3 9999999.9	|| W, 3 9999999.9
------------	-----	-----	-------------------	-------------------

5.14 - "\\ " " \ "

5.2.6

" " (5.15) ,

\ - " "

\ - " , " " "

\ - " "()

\ - " "()

5.15 - " "

" " -

5.2.6.1

" \ "

:
|| ?

5.2.6.2

“ \ ” “ \ ” “ \ ”

- ;
- ;
5.2.5 (5.10 5.11),



“ ”



“ ”,

60

|| ?

|| , =0

|| , =

|| , =

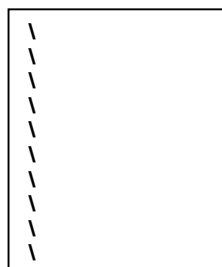
3.

5.2.7

“ ” “ ”

(5.16)

10



5.16 -

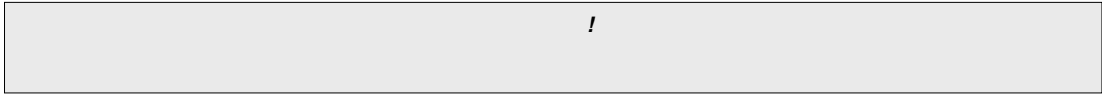
ZM.MMMMEzP,

(5.1)

Z -
M -
E -
z -
P -

:
- 0,012 = -1.2000 -2;

- 1,2 = +1.2000 +0;
- 12,0 = +1.2000 +1;
- 0,0 = +0.0000E+0.



5.2.7.1

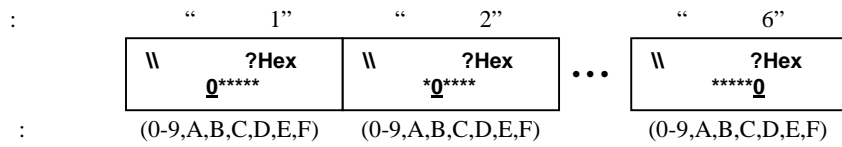
" (5.17) \ "

"1" -

- " : "

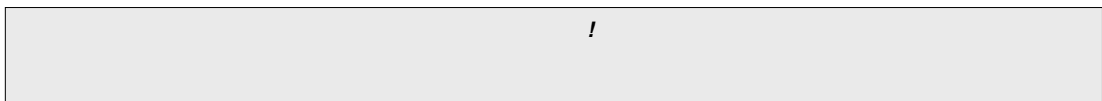
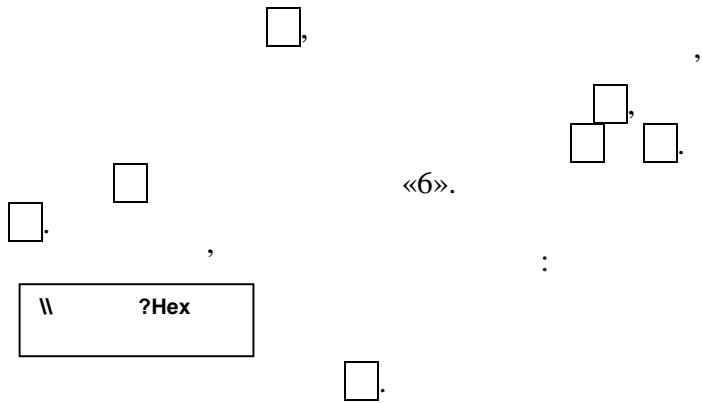
- " "

"0" - .



5.17 - " \ "

“?”



5.2.7.2

" (5.18), \ "

(, i)

“ \ ”

- “?”

“ ” (5.19).

“?”



“ ” “ ”

- : 2-3 " ”

“\ , /³”
±9.9999E±8

“\ Xy,%
±9.9999E±8

“\ Xa,%
±9.9999E±8

“\ ,
±9.9999E±8

“\ ,

“\ X,%”

5.18 -

“ \ ”

1)

2)

3)

□ □
□

“\ , /³”, “\ Xy,%” “\ X ,%”;

“\ , ”;

“?”

“<”- / “>”- ”,

□ -

(. .-

30319.2)

GERG-91

NX19

),

“ \ ”

50-

213-80,

6-8

“ ”,

□.

“ ” “ 1 ”	“ 5 ” “ ” “ ”			
“\ ? ZM.MMMMEzP	“\ ? ZM.MMMMEzP	“\ ? ZM.MMMMEzP	“\ ? ZM.MMMMEzP	“\ ? ZM.MMMMEzP
“(“+”,“-“)	(0-9)	(0-9)	(“+”,“-“)	(0-8)

5.19 -

5.2.7.3

“ \ ”
(5.20)

□,

□ □.

“?”,

□

“ ” (5.19).

“?”

“ ” “ ” “ ”

□ □.

□

“ ”.

2-3

“ ”,

“ ” “ ”

□.

$\| P ? \pm 9.9999E\pm 8$	-	()
$\| P ? \pm 9.9999E\pm 8$	-	$P / 2 < P \quad P ()$
$\| P ? \pm 9.9999E\pm 8$	-	, 0,084 $P \quad P ()$
$\| P ? \pm 9.9999E\pm 8$	-	, 0,084 < $P \quad P ()$

5.20 - " \ "

5.2.7.4 " \ "
(5.21)
5.2.7.3.

$\| t ?^\circ \pm 9.9999E\pm 8$	-	, 0 < t 60 ()
$\| t ?^\circ \pm 9.9999E\pm 8$	-	NX19 GERG-91 (: -25 t t - -50; -23,15 t t -)
$\| t ?^\circ \pm 9.9999E\pm 8$	-	GERG-91 (: -25 t 60 - -50; -23,15 t 60 - NX19)

5.21 - " \ "

5.2.7.5 " \ "
(5.22)
5.2.7.3.

0

$\| V ?^\circ \pm 9.9999E\pm 8$	-	, 0,01 V 10 ()
$\| Q ? ^3/ \pm 9.9999E\pm 8$	-	, 10 < Q 20000 ()
$\| Q ? ^3/ \pm 9.9999E\pm 8$	-	, V Q Q /8 ()
$\| Q ? ^3/ 9.9999E\pm 8$	-	) " " V /8 Qo < Q ()
$\| Q ? ^3/ 9.9999E\pm 8$	-	Q < Q 20000 ()
$\| W0? ^3 \pm 9.9999E\pm 8$	-	$\pm 1 \quad W0 \quad \pm 99999000 ()$

5.22 - " \ "

" \ \| W0? ^3":

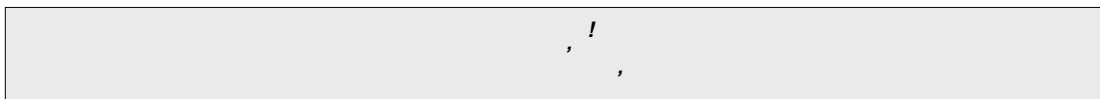
-

-

;

-

5 , W0=+783324 3,
: W0=+7.8332 +5, - W0= +4.0000 +0.



5.2.7.6

" (5.23) \ "

5.2.7.3.

" \ "

□ □ □

"?",

(5.24).

□ "?"

"

-

3 □ 1).

- □ □ (

□

□

" 4",

2-3

"

□

\\ ' ?1 SSSS	-	1	' () SSSS -
-----------------	---	---	--------------

3 1

\\ I ' ?2 SSSS	-	2	' ()
-------------------	---	---	-------

2

\\ I ' ?3 SSSS	-	3	' ()
-------------------	---	---	-------

3

\\ I ' ?4 SSSS	-	4	' ()
-------------------	---	---	-------

4

\\ ' ?1 SSSS	-	1	()
-----------------	---	---	-----

1

\\ ' ?2 SSSS	-	2	()
-----------------	---	---	-----

2

\\ ' ?3 SSSS	-	3	()
-----------------	---	---	-----

3

\\ ? -22 NNNNN, - , .	-		NNNNN, ()
--------------------------	---	--	------------

NNNNN, ()

5.23 -

"

\

"

: " 1" " 2" " 3" " 4"

\\ ' ?2 SSSS	\\ ' ?2 SSSS	\\ ' ?2 SSSS	\\ ' ?2 SSSS
-----------------	-----------------	-----------------	-----------------

5.24 -

"

"

5.2.7.7

" (5.25) \ "

"

" \ "

□ □

RS232

□

"?",

,

□

,

"?"

,

□ □

:

() -

"\\RS232? / ";

□

-

"\\ ? "

□

:

-

"\\RS232? / ";

-

()

-

"\\ ? "

,



\\ RS232? /c
9600

RS-232, 1200; 2400; 4800; 9600 ()

\\ ?Hex
HHHH

, - 1 FFF0 ()

5.25 - " \ "

5.2.7.8

" \ " (5.26)

\\ Q2,

2, : ; (*)

\\ ?
GERG

, : NX19; GERG; 50

\\ P?

, : - ; -

\\ t?

() : - ; -

\\ Q?

() : - ; -

\\ ?

- () - ;

\\ Q ?

q Q ; Q - Qo<q<Q , : -

\\ ?

; - p, t, q () : -

\\ Rt?W100
1.428

W₁₀₀ 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 ()

\\ ?
10

, : 1; 2; 3; 5; 10; 15; 30 ()

\\ ?

, : ; ()

\\ ?
03

() , : 00; 01; 02; 03, " ? "= 00

\\ .?
09

, : 00 - 23 ()

\\ .?
03

, : 01 - 28 ()

\\ ?Hex

-6- (000000 - FFFFFFFF

\\ ,

) « »: - ; - « » (

5.26 - " \ "

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

5.30)

□ “ ” (5.29) “ ” (

“ ”	“ ”	“ ”
‖ ? - : :	‖ ? . : - :	‖ ? : : -
: (0-23)	: (0-59)	: (0-59)

5.29 - " "

“ ”	“ ”	“ ”
‖ ? - - -	‖ ? - - -	‖ ? - - -
: (0-30)	: (1-12)	: (1-31)

5.30 - " "

“ ”.
(2-3) " ",

□

" : : " (- ; - ; -) ,
- " : : " (- ; - ; -) .
" " " " ,
" " .
:
- , ;
- , ;
- ,
" " ,
2020 , : 15 02 2020 01 04
- , : 23 59 55 ; 01 00 00 ;
- , : 04 2020 .
2020 01 04 , 2020 , 15 04 ,

2020

!
“ ” “<” (,) “1F”

5.2.7.10

(" 5.31 \ 3 " " \ "

“?” , “<” - /“>” - ,

“\ ?...” , 11,

- “ ” - ;
- “X” - ;
- “H” - ;
- “D” - ;
- “A” - ;
- “O” - ;
- “U” - ;

200 . “\ ?...”

- “\ = ” - , 2-3 ;

- “\ = ” - , “ ”

“\ ?...”.

\ ?

\ ?

\ ?Q2

5.31 - " \ "

”\ ? ”
”\ ? ”

”\ ?Q2”

“Q2, ”: “Q2, ”= () - “Q2, ”= () ; “Q2, ”= () - “Q2, ”= () .

6

6.1

()

() ;
- ;
-

("10")
"█",
"█".
2046 " (5.2.2),
" \ " (5.2.5.2).
2.

6.2

6.2.1

"Q<Q" -
"Q", "\Q", "=", "\Q", "=", "Q",
("Q=0").
"Q>Q" -
(
") - "\", "=", "\", "=",
"\", "=", "

6.2.2

" > " (" < ") -
) - ">" (" < 0,084 "),
"\", "=", "

6.2.3

"t>t" ("t<t ") -
 $t > 60^\circ$ ($t < t$, $t = 25^\circ$ -
50-213-80 $t = 23,15^\circ$ -
GERG-91 NX19),
"\", "=", "

6.2.4

"K=" -
"\", "=", ".

6.3

" = " -
"0" - ()

“ ” !
“1”()

"U= " - ,
"U= "

"Q= ", " = ", "t= " " = " - :
"Q ", " ", "t " " " .

6.5

"OE= " - , (" " "
/ 20 " E= "
" " - " = ")

"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-

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 (),

2,5²

4 ;

8.4

12.1.004..

8.5

22782.0,

1 b

22782.5,
5”X”

”ib”,

8.6

- 12.3.019.

9

9.1

9.2

9.3

10 1 50 500 10
15

1.	!	:
2.	,	.

9.4

:
- ;
- ;
- ;
- ;
- ;
- ;
- ;

14192,
“ ”, “ !”, “ ”.
5 40 80 %.
3

9.5

,

9.6

22782.5, 22782.0, "ib",
"1 ibIIAT5"
4 " 0.00-132-01"

9.7

9.7.1 ()
9.1. () 4.
9.7.2

9.7.3

“ 1”

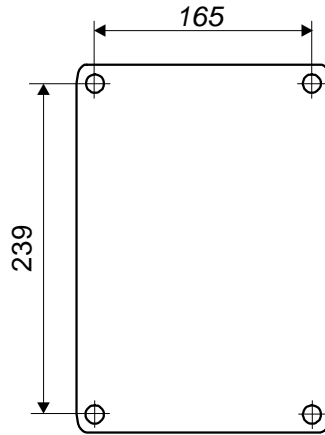
9.1...9.5.

4.1.2.1.

9.7.4

0,35² 2,5² RS232

4.1.2.1.



9.1 -

9.7.5

4.

9.7.6

4 .

9.7.7

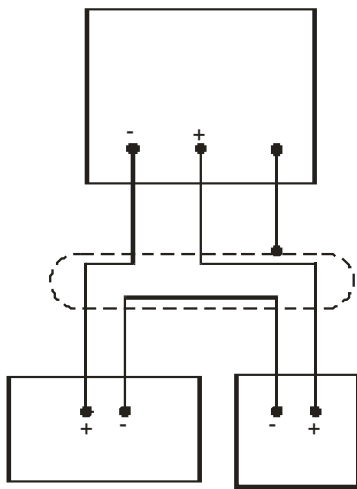
2,5²



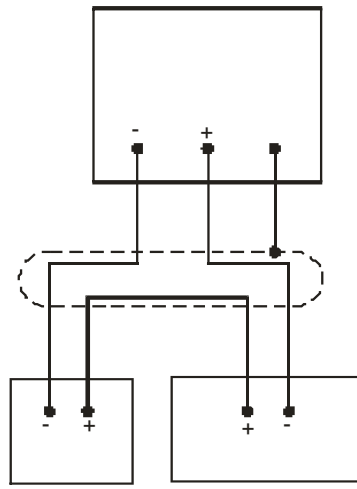
9.1 -

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

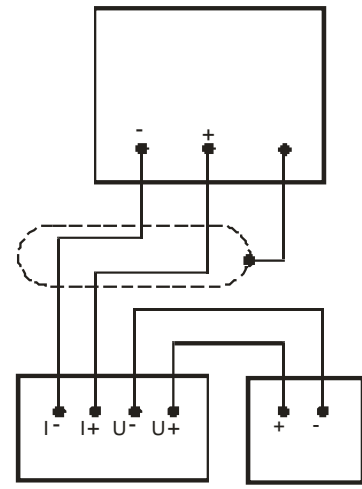
9.2.



(" 4 - 20 ")
Aplisens PC-28



(" 4 - 20 ")
- -13



0 - 5

9.2 -

9.2 -

“ ”

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

9.3 -

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

	1	,		RS232	
		DB9	DB25		
TD RD 0V	B21 B22 B20 B23 20	2 3 5 7 8 , ,	3 2 7 4 5 , ,	RD TD 0V RTS <input type="checkbox"/> CTS <input type="checkbox"/>	, -RW
TD RD 0V	B21 B22 B20 B23 20	3 2 5 7 8 4 , ,	2 3 7 4 5 20 , ,	RD TD 0V RTS <input type="checkbox"/> CTS <input type="checkbox"/> DTR <input type="checkbox"/>	
TD RD 0V	B21 B22 B20 B23 20	2 3 5 7 8 , ,	3 2 7 4 5 , ,	RD TD 0V RTS <input type="checkbox"/> CTS <input type="checkbox"/>	

9.5 -

1		
B19 B18	+	10 15



9.8

,
 ,
 :
 -
 "0" -
 ,
 "U = "
 20
 -
 ;
 ;
 " (5.2.7),
 -
 2-3
 2

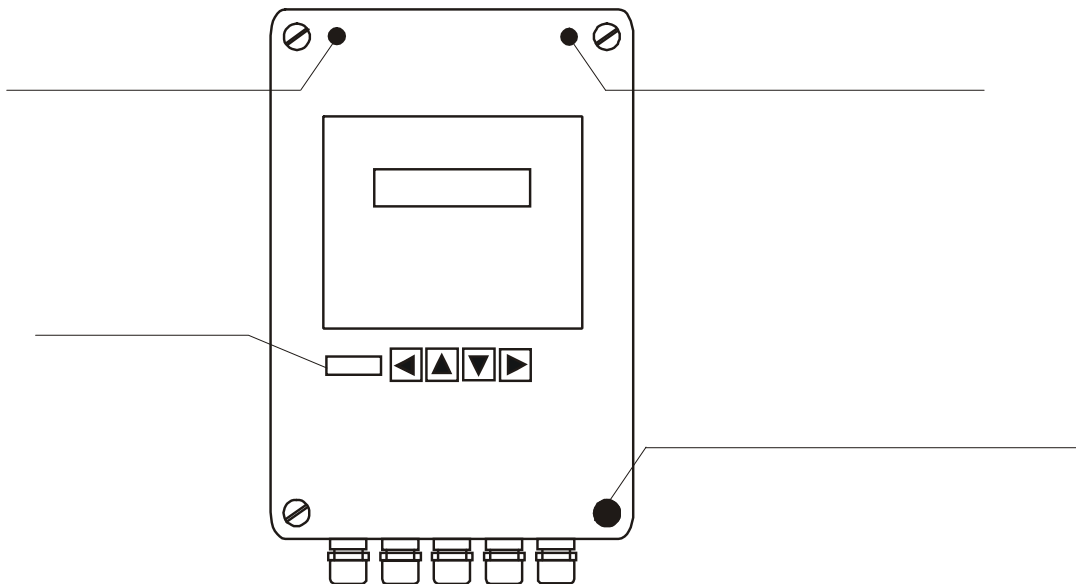
- , " ' \ (5.2.2)
 - ; " " ()
 - 5.2.7.10 " \ W0 \| 5.2.7.5; 5.2.7.2;
 - " " "1" - ,
 - " " , " = ";
 - 9.9.

!
 :
 - « \ » - 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 || ?», «l «l || V_{min} , ³», «l || .? », «l || .? », «l || ? ³», : || .? », «l || .? »,

1. || ? » «l || V_{Vi} ? ³», :

2. ,

3. , «l «l || w_0 , ³» || ? », ,

!

!

10

() , ,

2 15150.

1 15150.

- 6 .

: " \ "				
1	?		0...FFFFFF	
: " \ "				
2	Q2,	2	" ;" "	*
3			50; GERG; NX19	*
4	P,		" ;" "	
5	t,		" ;" "	
6	Q,		" ;" "	
7	,		" ;" "	
8	Q ,	Q	" ;" "	*
9	,	, t, q i K	" ;" "	
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	*
22	,		0,9...1,0	*
: " \ "				
23	P ,		0,1...8,0	
24	,		P /2...P	
25	P ,		0,084...P	
26	P ,		0,084...P	
: " \ "				
27	t ,°		0...+60	
28	t ,°	: 50-213 NX19, GERG-91	-25...t -23,15...t	
29	t ,°	: 50-13 NX19, GERG-91	-25...+60 -23,15...+60	
: " \ "				
30	V , ³		0,01...10,0	
31	Q , ³ /		10...20000	
32	Q , ³ /		V ...Q /8	

(, 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.

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

2. “ ”

	OE22	25333 (" ")
		2.0
		50
		09
		01
		03
		4 - 20
W100		1.391
		.250...
	q	BK
	, 3	B K
		1.000
	, 3/	400.0000
	, 3/	4.0000
	" "	1.0000
	, 3/	100.0000
	, 3	0.1
		0.68000
		0.50000
		0.13000
		0.50000
		BK
	o	60.0000
	o	-25.0000
	o	10.0000
		01.04.05 16:37:22

“ ” \ // , ”= , “ ”

3. “ ”
 3.1 :“ \ \|Q ? ”= ” “ \ \| ? ”= ”

()
 01.07.06 09:00:00 01.08.06 08:59:59

2, - 01, - 09
 OE-22 05333(“ ”), 50
 .250..., V = 1.000 3, q = 2.500 3/ , q = 400.00 3/
 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
\q,t,p=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

2, - 01, - 09
 OE-22 05333(“ ”), 50
 .250..., V = 1.000 3, q = 2.500 3/ , q = 400.00 3/
 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
\q,t,p=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 :“ \ \| ? ”=” ”

		01.07.06 09:00:00		01.08.06 08:59:59			
		OE-22	05333(	2,	- 01,	- 09	
		.250...	v	= 1.000	3, q	= 2.500	3/ , q = 400.00 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 “ ” (“ ’ , 3”) (“ ’ , 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 “ = ” “ ’ ”, “ ’ ” “ ” ,

3.4.2 “ ” ,

“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

- 01, - 09

OE-22 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

- 01, - 09

OE-22 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— , :

“ “.

