



电 仪
Ex-XK3118K
说 书

2014 7

- 请 细 阅 读 产 说 书
- 请 产 说 书 备 查 阅

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~ · ° " ~ / fi fl Ł ł

Ž ž ! " # \$ % & ' () * + , - Ex-

XK3118K ~ · ° " ~ / 0 1 ~ · 1 2 3 4 5 NEPSI 6 7
8 ~ · 1 2 9 : ; < GB3836.1-2010=GB3836.2-2010=GB3836.4-2010> GB3836.20-
2010- (? @ A 8 ~ · B

Exd[i aC CGa]C BT6Gb, ~ · < D E GYB14.1688XF fi G / fi 1 H I 8J fl Ł
K L ł M

1. I - / fi NOPQ M10°C~+40°C F
2. I 1 H = / fi > DRS " T UV "- W F
3. fi - XYZ [\] ^ _ ` a H b Z [c d ^ e f F] - ` a
H b - / fi 8 RS g I / fi h (? i F
4. I (j k l ~ 8 fi G 1 H / fi 7 m j k F
5. n 1 o p q r] s p q t L M

u w o	u v o x	u v o y z	u v] s p q	
Uo(V)	Io(mA)	Po(W)	Co(μF)	Lo(mH)
6.3	240	0.378	15	0.3

fi I D { u v] s p q 8 fl Ł L | @ A M

} ~] s € , f „ ... † f „ # 8 † t - f „ ... > # 8 ^ - u

v] s p q i D ^ %

} Š < ĆEG ... > # -] s € 5' ' " f „ p q 68 ~ ... † # ' "

i D { Co 8 Lo - 1% 8 ^ - u v] s p q i D ^ %

} Š < ĆEG ... > # -] s € 5' ' " f „ p q 68 ~ ... > # • v Š

i D { Co 8 Co 8 Lo - 1% 8 ^ - u v] s p q i D ^ - 50% %

6. / fi ' ĆEG < -] — (~ ™ fi - (š > œ F

7. fi ' Ÿ i ç E I - α s ¥ 8 | < I § " ©^a < « ¬ - ç { o - ® - 8K
° ± 2 - , F

8. I - 1 H =/ fi > < R S I h =GB3836. 13-

1997““ 3 9 > œ N fi >

13s f M 3 9 > œ N fi > - μ ”=GB3836. 15-

2000““ 3 9 > œ N fi >

15s f M | . > 1 H 5₃ 1] 6”=GB3836. 16-

2006““ 3 9 > œ N fi >

16s f M > H b - > 5₃ 1] 6r 5GB50257-

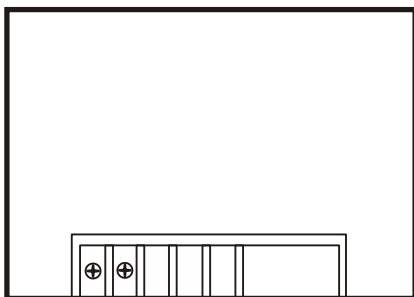
1996““ > H b 1 H ° » 3 > ¼ ½ ¶ N


> H b ¾° r ç Q”- (? i F

□□□ I h

I fi Š IIÄ ~ ' ° " ç ~ I 8Á Â fi Š Ã ° =Ä Ä (~ ' @A Æ fi
< F

1. n I ~ ' Å Mxd[iallCGa]lIBT6GbF




€ Ü		- Sen	+ Sen	-Sig	+Sig	- Exc	+ Exc
h	1 2 Å k	Ý	Þ Ý	ß E	Þ ß E	à á	Þ à á

t â / fi ā ä å æ ç è à á Þ _ Ý Þ = à á _ Ý é j F 1 2 Å k

@ê ë - j k ì 1 2 Å 8í î 7 m- j k F

② ì _ ê Ö

l	1A	1B	2A	2B		N	L
h	1E RS485-A	1E RS485-B	2E RS485-A	2E RS485-B	j k	ð x ï α	ð x ï ¼

3. ì j Ö M i a ì ð x 110~220V%50Hz/60HzF

4. PCê j Ö MRS485ì í 8ê RS485 RS232_ ñ Ö j 87 ì í > ò ó

ì í 8 ê D í h F

5. / fi N

/ fi O P : -10°C~40°C

e ô P M 85%RHF

1. 7ö ö ÷ LEDF

2. 7Ø ø ù ò Ö ú M 8y : 8ü ý 8 8 i 8 ~ 8α ö F

ò Ö ; y : Þ ý 5 6

ù d Ö ù

y : ™ ù

ü ý Ö > μ ù

Ö > μ ù

ì ù

~ ù 8 ~ ù

α ò ù † Õ α ˘ ù


3. (6Ø 8 h t L M


1.  M


é 8 Õ “SEt”8 a p q b %o


8 Õ “C 0000”8 a i Ô %o


G p q b é ‘ Æ p q - μ í o %o

2.  M ˘ Õ “ 1 ”y : 8p q b ò y : %o


3.  M ˘ Õ “ Õ ”y : 8p q b ò y : %o


4.  M ˘ Õ “ ”y : 8p q b ò q -1y : %o

5.  M ˘ Õ “1 ”y : 8p q b ò q +1y : %o












6.  M ˘ Õ “b α ”y : 8p q b p q F

□□□ i

ı U j a ˘ ù 8  8 ı Õ “C

0000” Õ a Z 8 i Z “8888”8  a 8 œ ™ t L M

E	ı Õ	p q «
1	d 001	ı f P b 8 † μ F
2	dc 0.000	ı q b 8u 7 b 3õ q 8 † μ F
3	PnVWXYZ	a p q (œfi Đ ı) V: / fi < 50M fi 1M fi 6 W: Q XM# Q YM b α Q ZMŮ b α Q

4	F 30000	a Æ» 5o b M00006F  †  - õ b 5 õ 68  õ 18  õ 18ê  =  õ >  =  8 a Æ» 8  5fl M Æ» 9Ø f P - " 6
5	noloAd	α õ 8 8Å i B; 
6	Adload Õ Æ	K ' Š 50%u v Æ» 8 j Æ» Ê F Æµ q 8Å i B; 
7	Flt 1	ž P 50× 36MMi %Mi 5o b M6
8	L	f P Õ L) 8 ~ Š f P L 8 i f P 1 ' 5o b M6
9	H	f P Õ) 8 ~ wŠ f P 8 i f P 100 ' 5o b f P 6

fl 1MPnp q - b Ì Ð M

a	0	1	2	3	4	5	6	7	8	9	õ
W: Q	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	uV
XM# Q	0	0.5	1.0	2.0	4.0	8.0	—	—	—	—	E
YM b α Q	0	2%	4%	10%	20%) \$	—	—	—	—	F.S
ZM b α Q	0	2%	4%	10%	20%) \$	—	—	—	—	F.S

G . ~ ù L <  _  8 i | a d Õ ù 8  7 o F

i Õ	fl
Ctnn 0	G i - ' 5† 6 8t â i 15 d ' : Í ì i - q 8 ™ Õ F ™ 7 K a 0† 1† 28g ™ fi f M M . ~ ù %M fi ' i - q ç i %M 8 a L

□ □ □ n ™ > p q b

1.U r U i b α

16j ê í í U i U? 8 i ç i 8 i a . ~ ù F

26t â - ~ Æ ¼ GU b ¼ Q d 8 i è j b ¼ F

2. b ¼ (j b ¼)

16 87 K / i Õ ¼ 8 ¼ õ B ; F

26 Õ ¼ , G b ¼ Q K d 8 TM fi F , TM fi F

36 (i B ; 8 7 K ç b ¼ TM F

3.1 y : TM

G . ~ Õ ù L 8 Õ ~ Æ p î , Æ i 8 87 è ~ Õ - ~ Æ TM
~ 1 8 i Õ ~ 08 ~ B ; F (i B ; 8 7 ç 1 TM F

16G . ~ Õ ù L 87 1 F ~ ~ ¼ ~ B ; F

26~ i ; < b ¼ ¥ 8 [b ¼] 7 / ~ ¼ 8 ~ B ; F

4. e ? TM

16G ~ Æ i î v Š 50 f P 8 7 ~ ~ Æ 8 i ; Õ ~ Æ 8

q 8 i . ~ ù %

26t â ~ Æ ç 8† í ¼ õ 8† ~ Æ' i 8† ~ Æ

q 8 ; Õ Err19 %

26G . ~ ù L 7 Õ ~ Æ 8 7 Õ q 8 o %

36 i ; Õ Sure 0 Õ 1 Æ 8µ “1” ; 1 F

é Õ “SEt” 8 a F

E	i Õ	p q «
1	Adr	RS485ê k b 8Q 0~9
2	Bt1	ˆ 1Ø 485Ö - ž z b 87 b Q 0~48 ž z 600=1200=2400=4800=9600bps‰
3	tF1	ˆ 1Ø 485Ö - ê D í b 87 b Q 0~48f D í M 0—! " ì í 2‰ 1—! " ó ì í 1‰ 2—! " ì í 3‰ 3—! " ì í 1‰ 4— o ~ Æ 87] j ñ Ö ç F
4	Bt2	ˆ 2Ø 485Ö - ž z b 87 b Q 0~48 ž z 600=1200=2400=4800=9600bps‰
5	tF2	p q Ł _ tF1e <
6	DXX.XX.XX	~ ü ý b %

7	tXX.XX.XX	~	b F
---	-----------	---	-----

□□□ ê DÍ h

ñ Ö q DÍ b Mō q õ 8 õ õ 8 û õ ,ž z i p q
 ñ ç è ì í ' " É ê ì í > É Modbusê ì í F

1. ! " ì í 2(TF=0)M

q - q ì Õ - ~ ÷ Æ(÷)q 5" ' 6F q 12
 q F DÍ t L ì Õ M ÷ † 2⊕3⊕.....8⊕96

X	d ...	fl «		‡ (20.00)	
		d ...		d ...	§
1	U	(XON)	02	XON	02
2	+† -	; E õ	2B/2D	+	2B
3	. Æq	u w õ	30× 39	0	30
4			30× 39	0	30
5			30× 39	2	32
6			30× 39	0	30
7			30× 39	0	30
8		u õ	30× 39	0	30
9	q õ q	ì 50× 46	30× 34	2	32
10	† û	wã õ		† û	01
11		ã õ			0x1B
12		XOFF	03	XOFF	03

2. ! " ì í 3(TF=2)M

q 10õ 8' 1õ õ 8' 10õ õ 8{ 8õ q õ ;
 o q 180 F

o D í 2															
StX	A	B	C	X	X	X	X	X	X	X	X	X	X	X	CR
1	2	3			4					5					

- g { M
- 1) <StX> ASCII ; (02H) F
 - 2) ù A, B, C F
 - 3) Õ ÷ Æ, 7 : 7 : ÷ F6õ ' ; E > q - q F
 - 4) ÷ 86õ ' ; E > q - q F
 - 5) <CR> ASCII ; (0DH) F

ù A			
Bits 0, 1, 2			
0	1	2	q õ b
0	0	0	KGKG00
1	0	0	KGKGX0
0	1	0	KGKGKG
1	1	0	KGKGX.X

0	0	1	KGKG.KG
1	0	1	KGX.KGX
0	1	1	KG.KGKG
1	1	1	X.KGKGX
Bits 3, 4			
3		4	f P "
1	0		X1
0	1		X2
1	1		X5
Bit 5			1
Bit 6			0

Ù	B
Bits	y :
Bit 0	$\checkmark = 0, \checkmark = 1$
Bit 1	; E : P = 0, = 1
Bit 2	" († S α) = 1
Bit 3	= 1
Bit 4	ō : kg = 1
Bit 5	1
Bit 6	1 1

	ó GM ^{1 2 s}		ó HM ^α	ó IM
4	† û	wã õ	† 2⊕3⊕.....⊕(n-1)⊕n	
5	† û	ã õ		
6	03(X0FF)			

i o d ...M

X	d ... r fl «			
1	02(XON) U			
2	A× Z		k E	
3	A× I ó AM		ó BM	
	ó CM		ó DM	
	ó GM q		ó HM q ó IM q	
4	ó d ... o e q			
M	ó d ... o e q			
n	ó d ... o e q			
n+1	† û	wã õ	† 2⊕3⊕.....⊕(n-1)⊕n	
n+2	† û	ã õ		
n+3	03(X0FF)			

i o 4× n- d ...t L M

ó A	q	6 q
ó B	8D Í M	14 q
	aM ; E (+† -)	
	b× hM 56õ q > 1õ q 6	
ó C	8D Í M	14 q
	aM ; E (+† -)	
	b× hM 56õ q > 1õ q 6	
ó D	8D Í M	14 q
	aM ; E (+† -)	
	b× hM 56õ q > 1õ q 6	

fl M † û w= 4õ - i M † > w= 4õ t â Š = Å Š 98 30h8 A
 SCII q 8† t M † û w4õ 68 30h 8 36h ASCII - 6 %o † > w
 = 4õ t â v Š 98 37h8 ASCII 8† t M † û w4õ B8 37h
 8 42h ASCII - B F

□□□ β Õ

i Õ	fl
Err 02	# 0 j † j
Err 03	" 8 L 2 s † s f
Err 16	a Đ ü ý † 8 重 a p - ü ý †
Err 19	α = , Æ = , Æ' † , Æq α ' : ¢ ™

3	[Ô [ø	ø	ø
4	[Ô [ö	' @ A	
5	d	70g Ö	80g Ö
6	d ø	ø	ø
7	H ì í		H