CPXT communication protocol

Details

Communication based on Mod bus RTU, support 03 read command, 06 and 10 write command

Communication model: 2 wire system, half-duplex, single drop connection

Communication speed: 2400, 4800,9600, 19200 baud rate

Data format: 1 start bit + 8 data bit+No parity bit+ 1 stop bit

Instrument support maximum 36 write command, support maximum 37 read command

Parameter	Address	Range	Read or write	Decimal point
PV	0000H		R	0，1，2，3
PID output %	0001H	0-1000 （0-100.0%）	R	1
Various indicators on the panel	0002H	Refer to table 1	R	0
Timer	0003H	0-9999 0.0-999.9	R	
Not applicable	0004H			
SV	0005H	-1999-9999	R/W	0，1，2，3
Not applicable	0006H	0	R	0
AT	0007H	0-1 （=0 STOP， =1 ACTIVE）	R/W	0
AL1	0008H	-1999~9999	R/W	0，1，2，3
Not applicable	0009H			
SC	000AH	-199.9~199.9	R/W	0，1，2，3
Not applicable	000BH		R	
PID P	000CH	0-200.0	R/W	1
PID I	000DH	0-3600 seconds	R/W	0
PID d	000EH	0-200 seconds	R/W	0
Not applicable	000FH			
Not applicable	0010H	-	R/W	
PID C Y t	0011H	0-100 seconds	R/W	0
H Y S	0012H	0-100.0	R/W	1
Not applicable	0013H			
Not applicable	0014H			
Not applicable	0015H			
Not applicable	0016H			
Not applicable	0017H			
Not applicable	0018H			
Not applicable	0019H			

Not applicable	001AH			
PID rSt	001BH	-30.0~30.0	R/W	0，1
Not applicable	001CH			
OPL	001DH	0.0~100.0%	R/W	1
OPH	001EH	0.0~100.0%	R/W	1
Not applicable	001FH			
Not applicable	0020H			
T2 reset time	0021H	0.0~20.0 seconds		
BUFF	0022H	0.0~100.0%	R/W	1
LCK	0023H	0-255	R/W	0
1nP1	0024H	Refer to table 2	R/W	0
dP	0025H	0~3	R/W	
LSPL	0026H	-1999~9999	R/W	0，1，2，3
USPL	0027H	-1999~9999	R/W	0，1，2，3
UNit	0028H	=0 Celcius =1 Fahrenheit =3 without unit	R/W	0
Not applicable	0029H			
PVFt	002AH	0-60	R/W	0
ANL1	002BH	-1999~9999	R/W	0，1，2，3
ANH1	002CH	-1999~9999	R/W	0，1，2，3
Not applicable	002DH			
Not applicable	002EH			
Not applicable	002FH			
Not applicable	0030H			
Not applicable	0031H			
Not applicable	0032H			
TUNT timer unit	0033H	=0 second =1 minute	R/W	
Not applicable	0034H			
Not applicable	0035H			
DPT timer decimal point	0036H	=0 without decimal point =1 with decimal point	R/W	
RUN timer running mode	0037H	=0 counting up =1 counting down		
d1 Timer trigger mode	0038H	=2 D1 active =3 D1 active =4 D1 active	R/W	
d2 Timer reset mode	0039H	=0 without reset =1 with reset	R/W	

tot timer output mode	003AH	=0 OP2 output after timer finished, Relay output delay T2 =1 OP2 Output right after timer kick-in and relay release after timer finished	R/W	

Remark 1 ： Various panel indicators are assigned under address 0002H

bit0: COM bit1:MAN bit2:AL3 bit3: AL2

bit4:AL1 bit5:AT bit6:OUT2 bit7:OUT1

=0 light on， =1 light off

Remark 2：1nP1

INP1=	Input type	Range low	Range high	Unit
0 or 1	K	0	1300	℃
2 or 3	E	0	600	℃
4 or 5	J	0	800	℃
6	N	0	1300	℃
7	Wu3/Re25	0	2000	℃
8	S	0	1600	℃
9	T	0.0	400.0	℃
10	R	0	1700	℃
11	B	0	1800	℃
12	AN4（2-10VDC or 1-5VDC or DC4-20mA	-1999	9999	N/A
13	AN3（0-10VDC or 0-5VDC or DC0-20mA	-1999	9999	N/A
14	AN2 (0-50mV)	-1999	9999	N/A
15	AN1 (0-20mV)	-1999	9999	N/A
16	Pt100	-200	800	℃