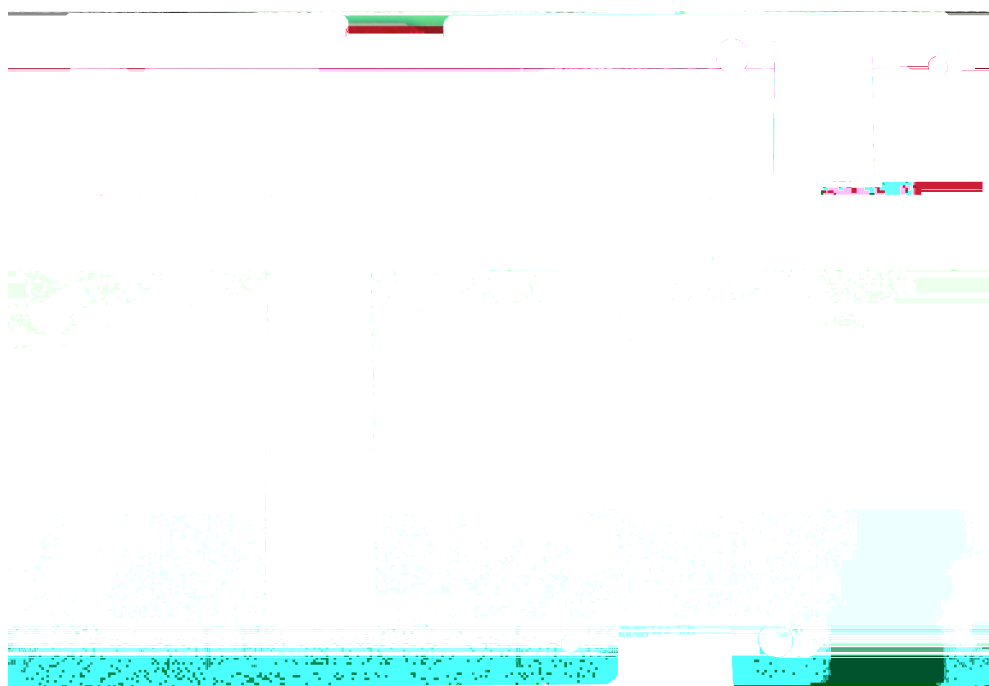


GUIDE



.....	1
.....	1
.....	1
.....	2
.....	2
.....	2
.....	2
.....	4
.....	4
MODBUS	4
GDHF-MB02	5
.....	6
.....	6
.....	6
.....	7
.....	7
.....	9
.....	9
.....	9
.....	9

	.....	9
MODBUS	.....	10
	.....	12
	.....	12
	.....	12
MODBUS	.....	12
	.....	16
	.....	16
	.....	16
MODBUS	.....	16
CRC	.....	16
MODBUS	.....	20
MODBUS	.....	22
	.....	27
	.....	28
	.....	32
LED	.....	32
	.....	33
	.....	35

GDHF-MB02

!

MODBUS-RTU

GDHF-MB02

MODBUS-RTU

GDHF-MB02

GDHF-MB02

GDHF-MB02

GDHF-MB02

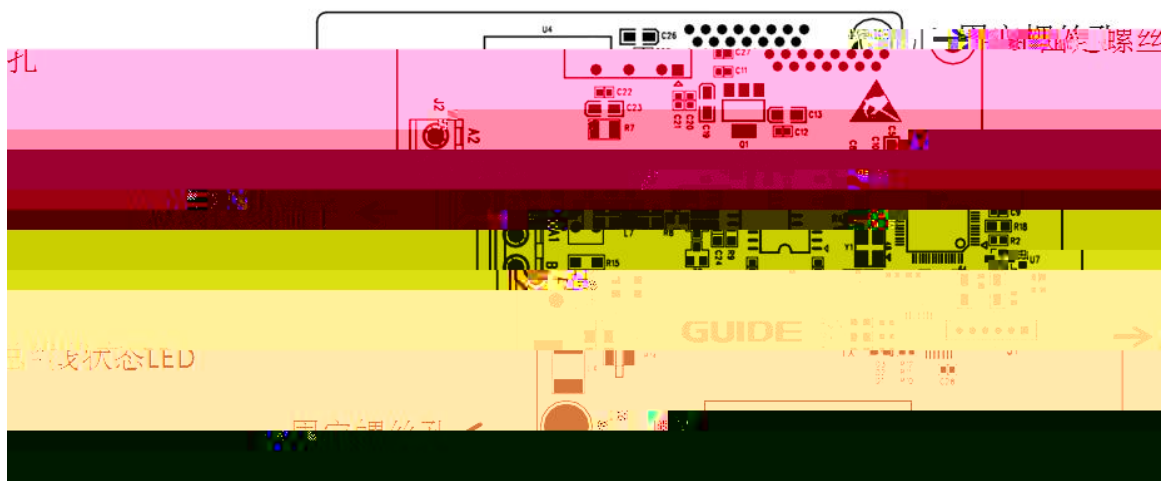
LED

MODBUS

3. MODBUS

PLC

GDHF-MB02



GDHB2MB02

-

-

MODBUS-RTU

GDHF-MB02

J14

MODBUS-RTU

GDHF-MB02

- HF650

- HF630

- HF620

- RS485

MODBUS RTU

MODBUS-RTU

GDHF-MB02

- MODBUS-RTU

GDHF-MB02

-

-

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10

GDHF-MB02

J14

GDHF-MB02

GDHF-MB02

- GDHF-MB02

-

GDHF-MB02

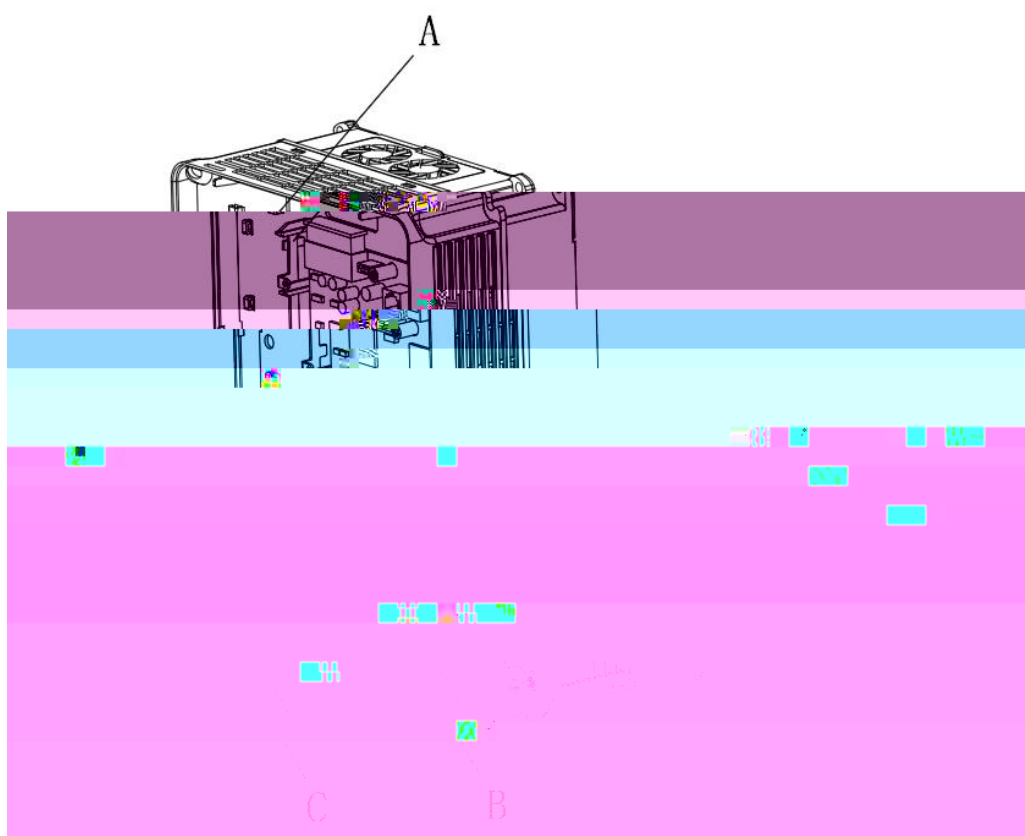
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EMC

GDHF-MB02

GDHF-MB02

PE



1

-
- -
 - MODBUS

10

RS485

MODBUS

J3

RS485

A2 B2

RS485

RS485

A2 B2

MODBUS

ON

MODBUS

GDHF-MB02

J2

A2	RS485_A2
B2	RS485_B2
PE	
A1	RS485_A1
B1	RS485_B1
PE	

M

PE

MODBUS

MODBUS

MODBUS

GND

MODBUS

MODBUS-RTU

GDHF-MB02

MODBUS-RTU

GDHF-MB02

MODBUS

GDHF-MB02

MODBUS

1 MODBUS

P32.0	MODBUS	[0] [1]	0 1	0
P32.1	MODBUS ID		1 247	1
P32.2		[0] RS485 [1] RS232	0 1	0

P32.3		[0] 9600BPS [1] 14400BPS [2] 19200BPS [3] 38400BPS [4] 56000BPS [5] 57600BPS [6] 115200BPS	0 6	3
P32.4		[0] None_8_1_CFG [1] Even_8_1_CFG [2] Odd_8_1_CFG [3] None_8_2_CFG [4] Even_8_2_CFG [5] Odd_8_2_CFG	0 5	0
P32.5	MODBUS	0 100s 0	0 100	0
P32.6	MODBUS	[0] [1]	0 1	0

1. MODBUS

[0] MODBUS

[1] MODBUS

2. MODBUS ID

MODBUS

HF600

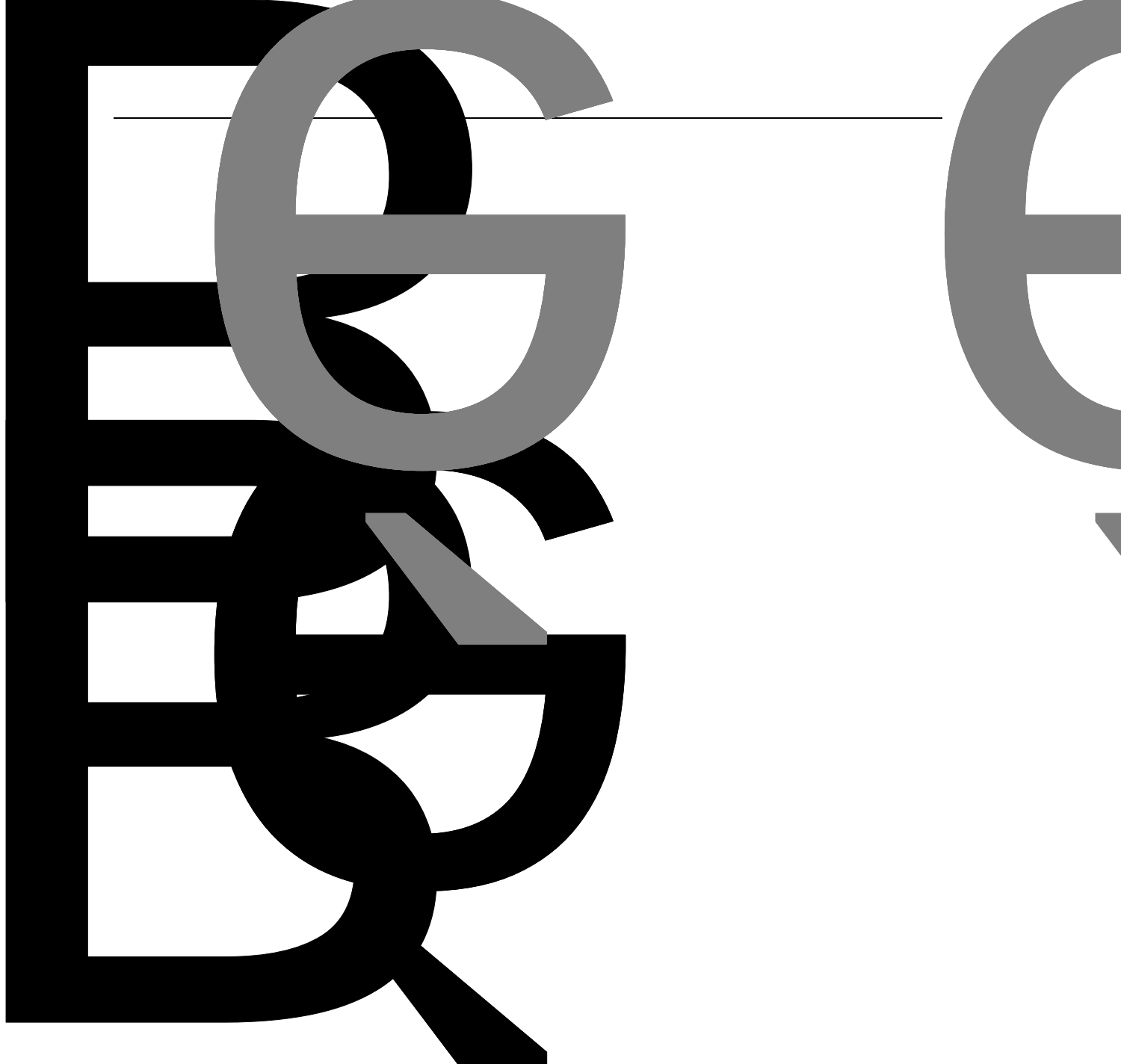
0

0

7. MODBUS

[0]

[1]



```
INT16U CRC16 (const INT8U *pData, INT16U wLength)
{
    static const INT16U wCRCTable[] = {
        0X0000, 0XC0C1, 0XC181, 0X0140, 0XC301, 0X03C0,
```

03C0

```
0X9C01, 0X5CC0, 0X5D80, 0X9D41, 0X5F00, 0X9FC1, 0X9E81, 0X5E40,  
0X5A00, 0X9AC1, 0X9B81, 0X5B40, 0X9901, 0X59C0, 0X5880, 0X9841,  
0X8801, 0X48C0, 0X4980, 0X8941, 0X4B00, 0X8BC1, 0X8A81, 0X4A40,  
0X4E00, 0X8EC1, 0X8F81, 0X4F40, 0X8D01, 0X4DC0, 0X4C80, 0X8C41,  
0X4400, 0X84C1, 0X8581, 0X4540, 0X8701, 0X47C0, 0X4680, 0X8641,  
0X8201, 0X42C0, 0X4380, 0X8341, 0X4100, 0X81C1, 0X8081, 0X4040 };
```

```
INT8U nTemp;
```

```
INT16U wCRCWord = 0xFFFF;
```

```
while (wLength--)
```

```
{
```

```
    nTemp = *nData++ ^ wCRCWord;
```

```
    wCRCWord >>= 8;
```

```
    wCRCWord ^= wCRCTable[nTemp];
```

```
}
```

```
return wCRCWord;
```

```
} // End: CRC16
```

MODBUS

MODBUS

MODBUS

MODBUS

MODBUS

MODBUS

MODBUS

RTU

3.5

T3.5

0...9 A...F "

Ó

PRODBV

3.5

MODBUS

2 MODBUS

				CRC	
T3.5	1Byte	1Byte	NBytes	2Bytes	T3.5

MODBUS IJSS

1 ~ 247

6

0

247

IJ

MODBUS

0x03(HEX) (Read Holding Registers)

0		1 ~ 247
1		3
2	[]	
3	[]	
4	[]	<N>
5	[]	
6	CRC []	CRC16
7	CRC []	
8		

0		1 ~ 247
1		3
2		2 × N
3	1 []	
4	1 []	
5	2 []	
6	2 []	
.....		
2 × N+1	N []	N
2 × N+2	N []	
2 × N+3	CRC []	CRC16

$2 \times N+4$	CRC	[]	
$(2 \times N + 5)$			

0x06(HEX) (Write Single Register)

0		1 ~ 247
1		6
2	[]	
3	[]	
4	1 []	
5	1 []	
6	CRC []	CRC16
7	CRC []	
8		

0		1 ~ 247
1		6
2	[]	
3	[]	
4	1 []	
5	1 []	
6	CRC []	CRC16

7	CRC	[]	
8			

0x10(HEX)

(

3	[]	
4	[]	<N>
5	[]	
6	CRC []	CRC16
7	CRC []	
8		

0x03		
0x06		

GDHF-MB02

MODBUS

2

GDHF-MB02 1000
 ~ 1061 62

MODBUS

MODBUS

MODBUS

MODBUS

HF600

MODBUS						
1000		× 1	W/R	N/A	0	1
1001		× 1	W/R	N/A	0	1
1002		× 10	W/R		0	+3000
1003		× 10	W/R		0	+2000
1004		× 10	W/R		0	+3000
1005		× 1	W/R	N/A	0	1

1006		× 10	W/R		0	+2000
1007		× 10	W/R		0	+2000
1008		× 1000	W/R	N/A	+50	+10000
1009		× 1000	W/R	N/A	+50	+10000
1010		× 1	W/R	N/A	0	1
1011		× 1	W/R	N/A	0	1
1012	DI	× 1	R	N/A		
1013	DO	× 1	R	N/A		
1014	AI1	× 100	R			
1015	AI1	× 100	R			
1016	AI2	× 100	R			
1017	AI2	× 100	R			
1018	AI1	× 100	R			
1019	AI2	× 100	R			
1020	A01	× 1	R			
1021	A02	× 1	R			
1022		× 10	R			
1023	@	× 10	R	-		
1024	A	× 10	R	-		
1025	B	× 10	R	-		
1026	C	× 10	R	-		
1027		× 100	R			
1028	@	× 10	R			
1029		× 10	R	/		
1030	—	× 10	R	/		
1031	@	× 10	R	-		
1032		× 10	R			

1033

.gde

GDHF-MB02

			PGG.II	G
		I	P38.88	
38	88		16bits	

GDHF-MB02

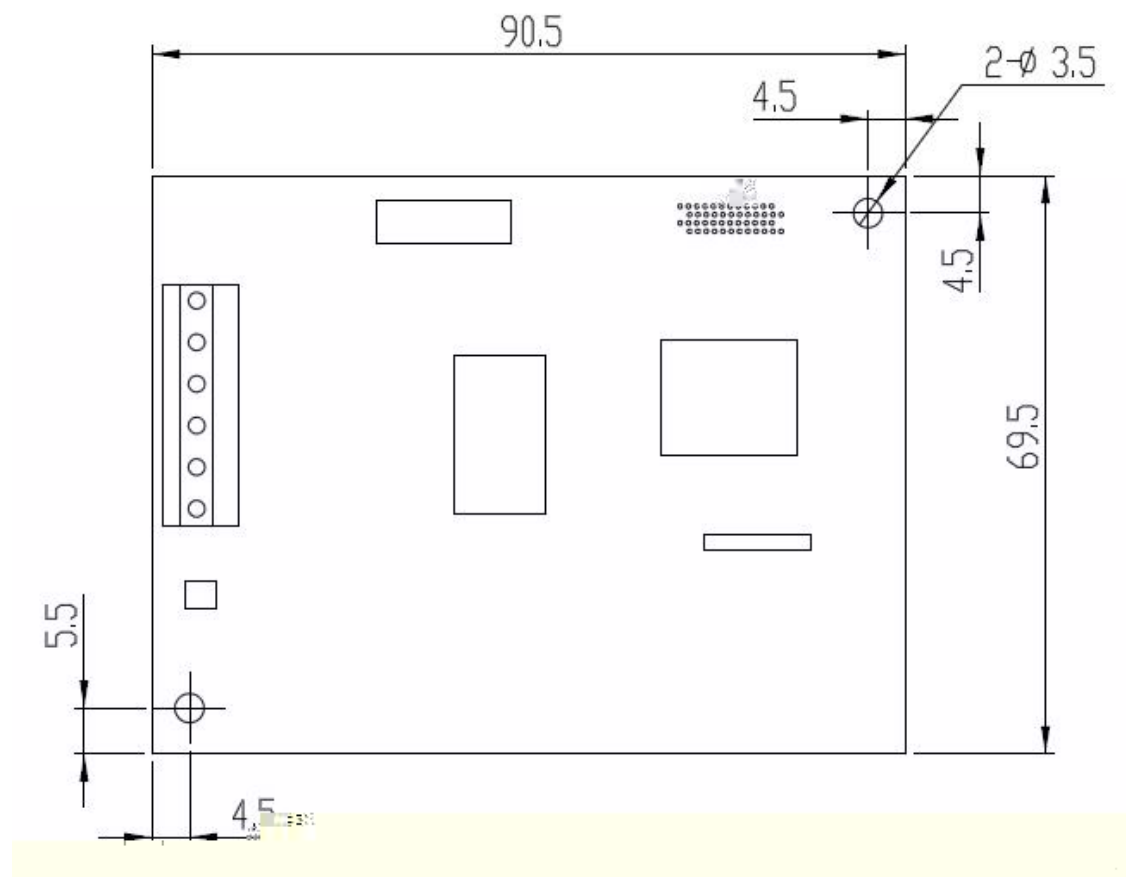
MODBUS

MODBUS

$MB_Addr = 2000 + (GG*100 + II);$

P38.88 MODBUS

$2000 + (38*100 + 88) = 5888$



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