

Key operation	Description
<b>M</b>	Change the setting screen / Save
<b>↑</b>	Number increase
<b>→</b>	Move cursor Right / Number decrease
<b>↵</b>	Confirm
<b>↑ + →</b>	Exit configuration menu

Menu Tree Structure			
<b>0-0</b>	<b>111.1</b>	NNORMAL DISPLAY	Press <b>M</b> , show [PAG1]
<b>0-1</b>	<b>PAG1</b>	INPUT SET	Press <b>↵</b> , show [IMD] / Press <b>M</b> , show [PAG2]
<b>0-2</b>	<b>PAG2</b>	RELAY OUTPUT	Press <b>↵</b> , show [SSET] / Press <b>M</b> , Show [PAG3]
<b>0-3</b>	<b>PAG3</b>	ANALOG OUTPUT	Press <b>↵</b> , show [OMD1] / Press <b>M</b> , show [PAG4]
<b>0-4</b>	<b>PAG4</b>	RS485 SET	Press <b>↵</b> , show [ADDR] / Press <b>M</b> , Show [CODE]
<b>0-5</b>	<b>CODE</b>	FACTOR SET	Press <b>↵</b> , show [0000] / Press <b>M</b> , Show[111.1] Normal display
<b>1-1 IMD</b>			
<b>1-1</b>	<b>IMD</b>	Input mode	Press <b>M</b> , show [0-20]
<b>1-2</b>	<b>0-20</b>		Range [0-20mA , 4-20mA , 0-5V , 1-5V , 0-10V] (Press <b>↑</b> to set) / Press <b>M</b> , show [DOT]
<b>1-3</b>	<b>DOT</b>	Decimal Point	Press <b>M</b> , show [0.0]
<b>1-4</b>	<b>0.0</b>		Range [0. , 0.0 , 0.00 , 0.000] (Press <b>→</b> to set) / Press <b>M</b> , show [DSH]
<b>1-5</b>	<b>DSH</b>	High scale	Press <b>M</b> , Show [100.0]
<b>1-6</b>	<b>100.0</b>		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show[ DSL]
<b>1-7</b>	<b>DSL</b>	Low scale	Press <b>M</b> , show [000.0]
<b>1-8</b>	<b>000.0</b>		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [LCUT]
<b>1-9</b>	<b>LCUT</b>	Low Cut	Press <b>M</b> , show [000.0]
<b>1-10</b>	<b>000.0</b>		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [AVG]
<b>1-11</b>	<b>AVG</b>	Average update	Press <b>M</b> , show [000.0]
<b>1-12</b>	<b>01</b>		Range [01~99] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [DIFT]
<b>1-13</b>	<b>DIFT</b>	Digital filter	Press <b>M</b> , show [000.0]
<b>1-14</b>	<b>00</b>		Range [00~99] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [111.1]
<b>2-1 SSET</b>			
<b>2-1</b>	<b>SSET</b>	Start comparison value	Press <b>M</b> , show [0000]
<b>2-2</b>	<b>0000</b>		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [SDY]
<b>2-3</b>	<b>SDY</b>	Start delay time for Relay energized	Press <b>M</b> , show [0000]

2-4	0000		Range [0000~9999]sec (Press ↑ → to set) / Press M, show [CON1]
2-5	CON1	Relay 1 COMM mode	Press M, show [OFF]
2-6	OFF		Range [OFF,ON] (Press ↑ to set) / Press M, show [RMD1]
2-7	RMD1	Relay 1 energized mode	Press M, show [HI]
2-8	HI		Range [NONE,HI,LO] (Press ↑ to set) / Press M, show [SET1]
2-9	SET1	Comparison value 1	Press M, show [0000]
2-10	0800		Range [-1999~9999] (Press ↑ → to set) / Press M, show [DB1]
2-11	DB1	Relay 1 Hysteresis	Press M, show [0000]
2-12	0000		Range [0000~9999] (Press ↑ → to set) / Press M, show [ODY1]
2-13	ODY1	Relay 1 energized delay time	Press M, show [0000]
2-14	0000		Range [0000~9999]sec (Press ↑ → to set) / Press M, show [FDY1]
2-15	FDY1	Relay 1 de-energized delay time	Press M, show [0000]
2-16	0000		Range [0000~9999]sec (Press ↑ → to set) / Press M, show [CON2]
2-17	CON2	Relay 2 COMM mode	Press M, show [OFF]
2-18	OFF		Range [OFF,ON] (Press ↑ to set) / Press M, show [RMD2]
2-19	RMD2	Relay 2 energized mode	Press M, show [HI]
2-20	HI		Range [NONE,HI,LO] (Press ↑ to set) / Press M, show [SET2]
2-21	SET2	Comparison value 2	Press M, show [0000]
2-22	0800		Range [-1999~9999] (Press ↑ → to set) / Press M, show [DB2]
2-23	DB2	Relay 2 Hysteresis	Press M, show [0000]
2-24	0000		Range [0000~9999] (Press ↑ → to set) / Press M, show [ODY2]
2-25	ODY2	Relay 2 energized delay time	Press M, show [0000]
2-26	0000		Range [0000~9999]sec (Press ↑ → to set) / Press M, show [FDY2]
2-27	FDY2	Relay 2 de-energized delay time	Press M, show [0000]
2-28	0000		Range [0000~9999]秒 (Press ↑ → to set) / Press M, show [111.1] in 2 relay model show [CON3] in 3 relay model
2-29	CON3	Relay 3 COMM mode	Press M, show [OFF]
2-30	OFF		Range [OFF,ON] (Press ↑ to set) / Press M, show [RMD3]
2-31	RMD3	Relay 3 energized mode	Press M, show [HI]
2-32	HI		Range [NONE,HI,LO] (Press ↑ to set) / Press M, show [SET3]
2-33	SET3	Comparison value 3	Press M, show [0000]
2-34	0800		Range [-1999~9999] (Press ↑ → to set) / Press M, show [DB3]

2-35	DB3	Relay 3 Hysteresis	Press <b>M</b> , show [0000]
2-36	0000		Range [0000~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [ ODY3]
2-37	ODY3	Relay 3 energized delay time	Press <b>M</b> , show [0000]
2-38	0000		Range [0000~9999]sec (Press <b>↑ →</b> to set) / Press <b>M</b> , show [FDY3]
2-39	FDY3	Relay 3 de-energized delay time	Press <b>M</b> , show [0000]
2-40	0000		Range [0000~9999]sec (Press <b>↑ →</b> to set) / Press <b>M</b> , show[CON4]
2-41	CON4	Relay 4 COMM mode	Press <b>M</b> , show [OFF]
2-42	OFF		Range [OFF,ON] (Press <b>↑</b> to set) / Press <b>M</b> , show [ RMD4]
2-43	RMD4	Relay 4 energized mode	Press <b>M</b> , show [HI]
2-44	HI		Range [NONE,HI,LO] (Press <b>↑</b> to set) / Press <b>M</b> , show [ SET4]
2-45	SET4	Comparison value 4	Press <b>M</b> , show [0000]
2-46	0800		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [ DB4]
2-47	DB4	Relay 4 Hysteresis	Press <b>M</b> , show [0000]
2-48	0000		Range [0000~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [ ODY4]
2-49	ODY4	Relay 4 energized delay time	Press <b>M</b> , show [0000]
2-50	0000		Range [0000~9999]sec (Press <b>↑ →</b> to set) / Press <b>M</b> , show [FDY4]
2-51	FDY4	Relay 4 de-energized delay time	Press <b>M</b> , show [0000]
2-52	0000		Range [0000~9999]sec (Press <b>↑ →</b> to set) / Press <b>M</b> , show [111.1] in 4 relay model show [RMD5] in 5 relay model
2-53	RMD5	Relay 5 energized mode	Press <b>M</b> , show [HI]
2-54	HI		Range [NONE,HI,LO] (Press <b>↑</b> to set) / Press <b>M</b> , show [ SET5]
2-55	SET5	Comparison value 5	Press <b>M</b> , show [0000]
2-56	0800		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [ DB5]
2-57	DB5	Relay 5 Hysteresis	Press <b>M</b> , show [0000]
2-58	0000		Range [0000~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [ ODY5]
2-59	ODY5	Relay 5 energized delay time	Press <b>M</b> , show [0000]
2-60	0000		Range [0000~9999]sec (Press <b>↑ →</b> to set) / Press <b>M</b> , show [FDY5]
2-61	FDY5	Relay 5 de-energized delay time	Press <b>M</b> , show [0000]
2-62	0000		Range [0000~9999]sec (Press <b>↑ →</b> to set) / Press <b>M</b> , show[111.1]
3-1	OMD1	Analogue Output 1 type	Press <b>M</b> , show [0-20]
3-2	0-20		Range [0-20mA , 4-20mA , 0-5V , 1-5V , 0-10V] (Press <b>↑</b> to set)



			/ Press <b>M</b> , show [HIP1]
3-3	HIP1	Percentage of output upper limit 1	Press <b>M</b> , show [100.0]
3-4	1000		Range [000.0~100.0]% (Press <b>↑ →</b> to set) / Press <b>M</b> , show [LOP1]
3-5	LOP1	Percentage of output lower limit 1	Press <b>M</b> , show [000.0]
3-6	0000		Range [000.0~100.0] % (Press <b>↑ →</b> to set) / Press <b>M</b> , show [DAH1]
3-7	DAH1	Output upper limit 1 corresponding value	Press <b>M</b> , show [1000]
3-8	1000		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [DAL1]
3-9	DAL1	Output lower limit 1 corresponding value	Press <b>M</b> , show [0000]
3-10	0000		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [111.1] in 1DA model show [OMD2] in 2DA model
3-11	OMD2	Analogue Output 2 type	Press <b>M</b> , show [0-20]
3-12	0-20		Range [0-20mA , 4-20mA , 0-5V , 1-5V , 0-10V] (Press <b>↑</b> to set) / Press <b>M</b> , show [HIP1]
3-13	HIP2	Percentage of output upper limit 2	Press <b>M</b> , show [100.0]
3-14	1000		Range [000.0~100.0]% (Press <b>↑ →</b> to set) / Press <b>M</b> , show [LOP1]
3-15	LOP2	Percentage of output lower limit 2	Press <b>M</b> , show [000.0]
3-16	0000		Range [000.0~100.0] % (Press <b>↑ →</b> to set) / Press <b>M</b> , show [DAH1]
3-17	DAH2	Output upper limit 2 corresponding value	Press <b>M</b> , show [1000]
3-18	1000		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [DAL1]
3-19	DAL2	Output lower limit 2 corresponding value	Press <b>M</b> , show [0000]
3-20	0000		Range [-1999~9999] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [111.1]
<b>4</b>			
4-1	ADDR	RS485 Address	Press <b>M</b> , show [001]
4-2	001		Range [001~255] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [BUAD]
4-3	BUAD	Baud rate	Press <b>M</b> , show [96]
4-4	96		Range [12,24,48,96,192,384] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [PARI]
4-5	PARI	Parity	Press <b>M</b> , show [96]
4-6	N.8.1		Range [N.8.1,N.8.2,O.8.1,E.8.1] (Press <b>↑ →</b> to set) / Press <b>M</b> , show [111.1]
<b>5</b>			
5-1	0000	FACTOR GROUP	Range [0000~9999] (Press <b>↑ →</b> to set) Input [0000] / press <b>M</b> , show program version Input [0095] / press <b>M</b> , Restore factory defaults Input [0020] / press <b>M</b> , LED[ZRO] Flicker, adjust the lower limit Input [0030] / press <b>M</b> , show [OZR1] Flicker, adjust the output 1 lower limit
5-2	LED[ZRO] Flicker	Input lower limit configuration	(Press <b>↑</b> increase, <b>→</b> decrease) Press <b>M</b> , LED[SPN] Flicker, adjust the input upper limit
5-3	LED[SPN] Flicker	Input upper limit configuration	(Press <b>↑</b> increase, <b>→</b> decrease)

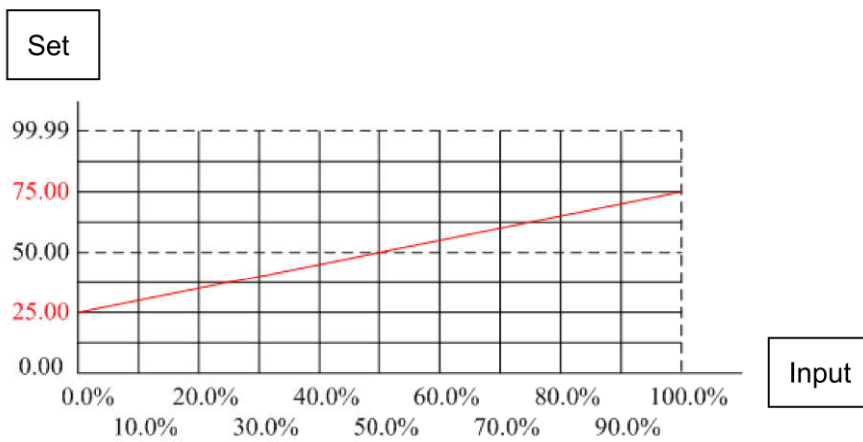
			Press <b>M</b> , show[111.1]
<b>5-4</b>	<b>OZR1</b>	Output 1 lower limit configuration	(Press <b>↑</b> increase, <b>→</b> decrease) Press <b>M</b> , show [OSP1]
<b>5-5</b>	<b>OSP1</b>	Output 1 upper limit configuration	(Press <b>↑</b> increase, <b>→</b> decrease) Press <b>M</b> , show [OZR2]
<b>5-6</b>	<b>OZR2</b>	Output 2 lower limit configuration	(Press <b>↑</b> increase, <b>→</b> decrease) Press <b>M</b> , show [OSP2]
<b>5-7</b>	<b>OSP2</b>	Output 2 upper limit configuration	(Press <b>↑</b> increase, <b>→</b> decrease) Press <b>M</b> , show [111.1]

**PAG1 - INPUT SET function description**

Set **IMD**(Input mode) 0-20mA , 4-20 mA , 0-5V , 1-5V , 0-10V

Set **DSH** (Input high scale)-1999~9999 / **DSL** (Input low scale)-1999~9999

example :DSH:75.00 DSL:25.00



**PAG3 - ANALOG OUTPUT SET function description**

Set **OMD**(output mode) 0-20mA , 4-20 mA , 0-5V , 1-5V , 0-10V

Set **HIP**(Percentage of output upper limit) **0.0~100.0%**

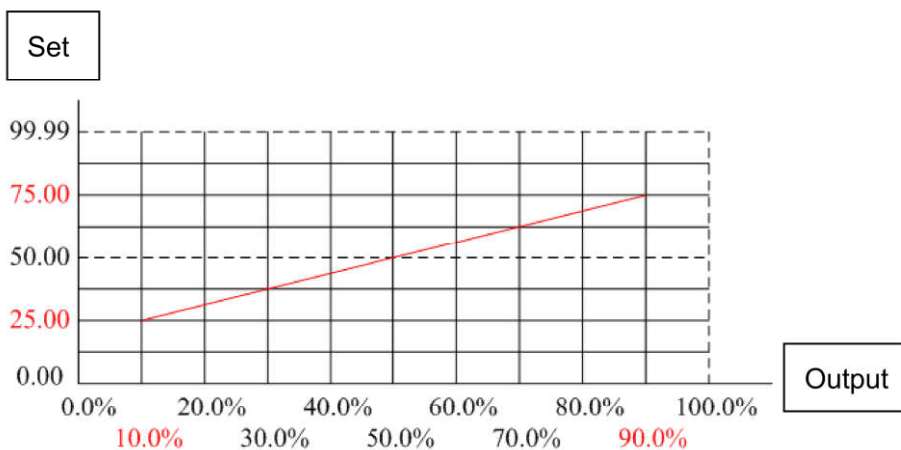
**LOP**(Percentage of output lower limit) **0.0~100.0%**

**DAH**(Output upper limit corresponding value) **-1999~9999**

**DAL**(Output lower limit corresponding value) **-1999~9999**

example :HIP:90.0% LOP:10.0%

DAH:75.00 DAL:25.00



Modbus RTU Mode(Configuration)(Base0)

Register Number	Register Name	Type	Saved	Unit	Range	Register Description		
1000	0x03E8	Product Type	R	N	ASCII	UMDC UMAC		
1001	0x03E9							
1002	0x03EA							
1003	0x03EB							
1004	0x03EC	Firmware_version	R	N	0.1	1~9999	Ver	
1005	0x03ED	Reserved						
1006	0x03EE	Display value	R	N		-1999~9999		
1007	0x03EF	Reserved						
1008	0x03F0	Reserved						
1009	0x03F1	Alarm condition	R	N	BIT	0~1	BIT0 = Active BIT1 = Alarm 1 BIT2 = Alarm 2 BIT3 = Alarm 3 BIT4 = Alarm 4 BIT5 = Alarm 5	
1010	0x03F2	Reserved						
1119	0x045F							
1120	0x0460		IMD	R/W	Y		0~4	0 = 0~20mA 1 = 4~20mA 2 = 0~5V 3 = 1~5V 4 = 0~10V
1121	0x0461		DOT	R/W	Y		0~4	
1122	0x0462		Reserved					
1123	0x0463		DSH	R/W	Y		-1999~9999	
1124	0x0464		Reserved					
1125	0x0465		DSL	R/W	Y		-1999~9999	
1126	0x0466		Reserved					
1127	0x0467		LCUT	R/W	Y		-1999~9999	
1128	0x0468	AVG	R/W	Y		1~99		
1129	0x0469	DIFT	R/W	Y		0~99		
1130	0x046A	Reserved						
1131	0x046B	Reserved						
1132	0x046C	SPAN	R/W	Y		-1999~9999		
1133	0x046D	ZERO	R/W	Y		-1999~9999		
1134	0x046E	Reserved						
1135	0x046F	Reserved						
1136	0x0470	Reserved						
1137	0x0471	SSET	R/W	Y		-1999~9999		
1138	0x0472	SDY	R/W	Y	1 秒	0~9999		
1139	0x0473	RMD1	R/W	Y		0~2	0 = NONE,1 = HI,2 = LO	
1140	0x0474	CON1	R/W	Y		0~1	0 = OFF,1 = OPEN	
1141	0x0475	SET1	R/W	Y		-1999~9999		
1142	0x0476	DB1	R/W	Y		0~9999		
1143	0x0477	ODY1	R/W	Y	1 秒	0~9999		
1144	0x0478	FDY1	R/W	Y	1 秒	0~9999		
1145	0x0479	RMD2	R/W	Y		0~2	0 = NONE,1 = HI,2 = LO	
1146	0x047A	CON2	R/W	Y		0~1	0 = OFF,1 = OPEN	
1147	0x047B	SET2	R/W	Y		-1999~9999		
1148	0x047C	DB2	R/W	Y		0~9999		
1149	0x047D	ODY2	R/W	Y	1 秒	0~9999		
1150	0x047E	FDY2	R/W	Y	1 秒	0~9999		
1151	0x047F	RMD3	R/W	Y		0~2	0 = NONE,1 = HI,2 = LO	

1152	0x0480	CON3	R/W	Y		0~1	0 = OFF,1 = OPEN
1153	0x0481	SET3	R/W	Y		-1999~9999	
1154	0x0482	DB3	R/W	Y		0~9999	
1155	0x0483	ODY3	R/W	Y	1 秒	0~9999	
1156	0x0484	FDY3	R/W	Y	1 秒	0~9999	
1157	0x0485	RMD4	R/W	Y		0~2	0 = NONE,1 = HI,2 = LO
1158	0x0486	CON4	R/W	Y		0~1	0 = OFF,1 = OPEN
1159	0x0487	SET4	R/W	Y		-1999~9999	
1160	0x0488	DB4	R/W	Y		0~9999	
1161	0x0489	ODY4	R/W	Y	1 秒	0~9999	
1162	0x048A	FDY4	R/W	Y	1 秒	0~9999	
1163	0x048B	RMD5	R/W	Y		0~2	0 = NONE,1 = HI,2 = LO
1164	0x048C	Reserved					
1165	0x048D	SET5	R/W	Y		-1999~9999	
1166	0x048E	DB5	R/W	Y		0~9999	
1167	0x048F	ODY5	R/W	Y	1 秒	0~9999	
1168	0x0490	FDY5	R/W	Y	1 秒	0~9999	
1169	0x0491	OMD1	R/W	Y		0~4	0 = 0-20mA 1 = 4-20mA 2 = 0-5V 3 = 1-5V 4 = 0-10V
1170	0x0492	Reserved					
1171	0x0493	DAH1	R/W	Y		-1999~9999	
1172	0x0494	Reserved					
1173	0x0495	DAL1	R/W	Y		-1999~9999	
1174	0x0496	OSP1	R/W	Y		-1999~9999	
1175	0x0497	OZR1	R/W	Y		-1999~9999	
1176	0x0498	OMD2	R/W	Y		0~4	0 = 0-20mA 1 = 4-20mA 2 = 0-5V 3 = 1-5V 4 = 0-10V
1177	0x0499	Reserved					
1178	0x049A	DAH2	R/W	Y		-1999~9999	
1179	0x049B	Reserved					
1180	0x049C	DAL2	R/W	Y		-1999~9999	
1181	0x049D	OSP2	R/W	Y		-1999~9999	
1182	0x049E	OZR2	R/W	Y		-1999~9999	
1183	0x049F	Addr	R/W	Y		1-255	
1184	0x04A0	Baud	R/W	Y		0-5	0 = 1200 1 = 2400 2 = 4800 3 = 9600 4 = 19200 5 = 38400
1185	0x04A1	Pari	R/W	Y		0-3	0 = n.8.1 1 = n.8.2 2 = o.8.1 3 = e.8.1

100	0x0064	Reset Control Relay	W	1 for reset relay mode
101	0x0065	Control Relay1	W	1 for On, 0 for Off
102	0x0066	Control Relay2	W	1 for On, 0 for Off
103	0x0067	Control Relay3	W	1 for On, 0 for Off
104	0x0068	Control Relay4	W	1 for On, 0 for Off