

A22-5nn ADDRESS TABLE				Function 03 Read Holding Registers												
Name		Address		Range		Explain		initial		Unit	Read/Write	Note				
		Decimal	Hexadecimal	High Byte	Low Byte	High Byte	Low Byte									
Model & Company	0	0000	Constatnt Ascii of Model & Company			Model & Company name		" A "	" 2 "		R	"A" "2" Ascii Code				
	1	0001						" Y "	" _ "		R	"Y" (1 or 2) "-" Ascii Code				
	2	0002						" 5 "	nn		R	"5" "nn" Ascii Code or "3" "nn" Ascii Code				
	3	0003						" F "	" N "		R	"F" "N" Ascii Code				
	4	0004						RX TX Couner		" P "	0		R	"P" Ascii Code 0		
Version	5	0005	00 to 256	00 to 256	Hardware Version		Software Version		HW	SW		R	Hardware & Software Version			
Date Number	6	0006	(00D - 99D)H (01D - 12D)L		Year		Month		YM			R				
Seial Number	7	0007	0 to 65535		Serial Number				SN			R				
Password	8	0008	0 to 9999		Password				1234			R				
ID Address	9	0009		1 to 247	Device Address RS485 Communication				0	247		R	Default MODBUS ID address is : 1			
Baud Rate	10	000A	00h to 07h		Baud Rate of RS-485 Communication		0005H		Bit/S	R	Baud Rate	00h	300			
												01h	600			
												02h	1200			
												03h	2400			
												04h	4800			
												05h	9600			
												06h	14400			
												07h	19200			
Parity & Stop bit	11	000B	01h to 05h		Parity & Stop Bit Communication		0004H			R	Parity & Stop bit	00h	None parity 1 Stop bit			
												01h	None parity 2 Stop bit			
												02h	Odd parity 1 Stop bit			
												03h	Odd parity 2 Stop bit			
												04h	Even parity 1 Stop bit			
												05h	Even parity 2 Stop bit			
Automatic Turn Off HORN	12	000C	1800 to 0 second Down Timer		Non Critical horn off timer				600		Sec	R				
	13	000D	1801 to 0 second Down Timer		Critical horn off timer				600		Sec	R				
Fault Counter & ISA Sequence	14	000E	0 to 24	85 , 90 , 165 , 53, 170 , 60	Alarm or Fault Counter	ISA Sequence		0	85		R	ISA-2C	55h	85		
												ISA-A	5Ah	90		
												ISA-F2A	A5h	165		
												ISA-F3M	Aah	170		
												ISA-F3A (not available)	0035	53		
												Simple window	3Ch	60		
Alarm system Status	15	000F	00h to FFh	00h to FFh	Alarm System Status					R	Critical Horn Status	bit 0	0	Relay OFF	1	Relay ON
											Non Critical Horn Status	bit 1	0	Relay OFF	1	Relay ON
											Trip Relay Status	bit 2	0	Relay OFF	1	Relay ON
											Flash Fast Status	bit 3	0	Flash OFF	1	Flash ON
											Flash Normal Status	bit 4	0	Flash OFF	1	Flash ON
											Flash Slow Status	bit 5	0	Flash OFF	1	Flash ON
											Lamp Test Status	bit 6	0	Normal Status	1	Lamp test Status
											Wiring Ok	bit 7	0	Sync Wiring Error	1	Sync Wiring OK
											Trip Relay Type 1	bit 8	0	Deselect (Table 5)	1	For future define
											Trip Relay Type 2	bit 9	0	Deselect (Table 5)	1	For future define
											Trip Relay Type 3	bit 10	0	Deselect (Table 5)	1	Select (Table 5)

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												Trip Relay Type 4	bit 11	0	Deselect (Table 5)	1	Select (Table 5)
												Trip Relay Type 4	bit 12	0	Deselect (Table 5)	1	Select (Table 5)
												HornOff PB Exist	bit 13	0	NO	1	YES
												Horn Test Requirer	bit 14	0	NO	1	YES
												Internal Horn ON/OFF	bit 15	0	OFF	1	ON
Channel 1	Status	16	0010	5 to 65535		Bit pattern Status for Channel 1		00h	40h		R	Input	bit 0	0	Input channel LOW	1	Input channel HIGH
Channel 2	Status	17	0011	5 to 65535		Bit pattern Status for Channel 2		00h	40h		R	D Input	bit 1	0	Debounce input LOW	1	Debounce input HIGH
Channel 3	Status	18	0012	5 to 65535		Bit pattern Status for Channel 3		00h	40h		R	Alarm in	bit 2	0	Input fault deactive	1	Input fault active
Channel 4	Status	19	0013	5 to 65535		Bit pattern Status for Channel 4		00h	40h		R	Fst Alarm	bit 3	0	No First Alarm	1	First Alarm
Channel 5	Status	20	0014	5 to 65535		Bit pattern Status for Channel 5		00h	40h		R	NAck.	bit 4	0	No alarm	1	No acknowledge alarm
Channel 6	Status	21	0015	5 to 65535		Bit pattern Status for Channel 6		00h	40h		R	Ack.	bit 5	0	Reset Alarm	1	Acknowledge alarm
Channel 7	Status	22	0016	5 to 65535		Bit pattern Status for Channel 7		00h	40h		R	NO/NC	bit 6	0	NC channel	1	NO channel
Channel 8	Status	23	0017	5 to 65535		Bit pattern Status for Channel 8		00h	40h		R	Cr/NCr	bit 7	0	Non critical channel	1	Critical channel
Channel 9	Status	24	0018	5 to 65535		Bit pattern Status for Channel 9		00h	40h		R	Status	bit 8	0	Alarm or Fault	1	Signal (ON / OFF)
Channel 10	Status	25	0019	5 to 65535		Bit pattern Status for Channel 10		00h	40h		R	reserve	bit 9	0	For future define	1	For future define
Channel 11	Status	26	001A	5 to 65535		Bit pattern Status for Channel 11		00h	40h		R	reserve	bit 10	0	For future define	1	For future define
Channel 12	Status	27	001B	5 to 65535		Bit pattern Status for Channel 12		00h	40h		R	Alarm Priority Number bit 0	bit 11	Alarm Priority Number bit 0 to 4 (0 to 31)			
Channel 13	Status	28	001C	5 to 65535		Bit pattern Status for Channel 13		00h	40h		R	Alarm Priority Number bit 1	bit 12				
Channel 14	Status	29	001D	5 to 65535		Bit pattern Status for Channel 14		00h	40h		R	Alarm Priority Number bit 2	bit 13				
Channel 15	Status	30	001E	5 to 65535		Bit pattern Status for Channel 15		00h	40h		R	Alarm Priority Number bit 3	bit 14				
Channel 16	Status	31	001F	5 to 65535		Bit pattern Status for Channel 16		00h	40h		R	Alarm Priority Number bit 4	bit 15				
Channel 17	Status	32	0020	5 to 65535		Bit pattern Status for Channel 17		00h	40h		R						
Channel 18	Status	33	0021	5 to 65535		Bit pattern Status for Channel 18		00h	40h		R						
Channel 19	Status	34	0022	5 to 65535		Bit pattern Status for Channel 19		00h	40h		R						
Channel 20	Status	35	0023	5 to 65535		Bit pattern Status for Channel 20		00h	40h		R						
Channel 21	Status	36	0024	5 to 65535		Bit pattern Status for Channel 21		00h	40h		R						
Channel 22	Status	37	0025	5 to 65535		Bit pattern Status for Channel 22		00h	40h		R						
Channel 23	Status	38	0026	5 to 65535		Bit pattern Status for Channel 23		00h	40h		R						
Channel 24	Status	39	0027	5 to 65535		Bit pattern Status for Channel 24		00h	40h		R						
Channel 1	ON Delay Timer	40	0028	5 to 65535		ON Delay Setting Channel 1		6		mSec	R						
Channel 2	ON Delay Timer	41	0029	5 to 65535		ON Delay Setting Channel 2		6		mSec	R						
Channel 3	ON Delay Timer	42	002A	5 to 65535		ON Delay Setting Channel 3		6		mSec	R						
Channel 4	ON Delay Timer	43	002B	5 to 65535		ON Delay Setting Channel 4		6		mSec	R						
Channel 5	ON Delay Timer	44	002C	5 to 65535		ON Delay Setting Channel 5		6		mSec	R						
Channel 6	ON Delay Timer	45	002D	5 to 65535		ON Delay Setting Channel 6		6		mSec	R						
Channel 7	ON Delay Timer	46	002E	5 to 65535		ON Delay Setting Channel 7		6		mSec	R						
Channel 8	ON Delay Timer	47	002F	5 to 65535		ON Delay Setting Channel 8		6		mSec	R						
Channel 9	ON Delay Timer	48	0030	5 to 65535		ON Delay Setting Channel 9		6		mSec	R						
Channel 10	ON Delay Timer	49	0031	5 to 65535		ON Delay Setting Channel 10		6		mSec	R						
Channel 11	ON Delay Timer	50	0032	5 to 65535		ON Delay Setting Channel 11		6		mSec	R						
Channel 12	ON Delay Timer	51	0033	5 to 65535		ON Delay Setting Channel 12		6		mSec	R						
Channel 13	ON Delay Timer	52	0034	5 to 65535		ON Delay Setting Channel 13		6		mSec	R						
Channel 14	ON Delay Timer	53	0035	5 to 65535		ON Delay Setting Channel 14		6		mSec	R						



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Channel 15	ON Delay Timer	54	0036	5 to 65535		ON Delay Setting Channel 15		6	mSec	R		
Channel 16	ON Delay Timer	55	0037	5 to 65535		ON Delay Setting Channel 16		6	mSec	R		
Channel 17	ON Delay Timer	56	0038	5 to 65535		ON Delay Setting Channel 17		6	mSec	R		
Channel 18	ON Delay Timer	57	0039	5 to 65535		ON Delay Setting Channel 18		6	mSec	R		
Channel 19	ON Delay Timer	58	003A	5 to 65535		ON Delay Setting Channel 19		6	mSec	R		
Channel 20	ON Delay Timer	59	003B	5 to 65535		ON Delay Setting Channel 20		6	mSec	R		
Channel 21	ON Delay Timer	60	003C	5 to 65535		ON Delay Setting Channel 21		6	mSec	R		
Channel 22	ON Delay Timer	61	003D	5 to 65535		ON Delay Setting Channel 22		6	mSec	R		
Channel 23	ON Delay Timer	62	003E	5 to 65535		ON Delay Setting Channel 23		6	mSec	R		
Channel 24	ON Delay Timer	63	003F	5 to 65535		ON Delay Setting Channel 24		6	mSec	R		
Channel 1	OFF Delay Timer	64	0040	5 to 65535		OFF Delay Setting Channel 1		30	mSec	R		
Channel 2	OFF Delay Timer	65	0041	5 to 65535		OFF Delay Setting Channel 2		30	mSec	R		
Channel 3	OFF Delay Timer	66	0042	5 to 65535		OFF Delay Setting Channel 3		30	mSec	R		
Channel 4	OFF Delay Timer	67	0043	5 to 65535		OFF Delay Setting Channel 4		30	mSec	R		
Channel 5	OFF Delay Timer	68	0044	5 to 65535		OFF Delay Setting Channel 5		30	mSec	R		
Channel 6	OFF Delay Timer	69	0045	5 to 65535		OFF Delay Setting Channel 6		30	mSec	R		
Channel 7	OFF Delay Timer	70	0046	5 to 65535		OFF Delay Setting Channel 7		30	mSec	R		
Channel 8	OFF Delay Timer	71	0047	5 to 65535		OFF Delay Setting Channel 8		30	mSec	R		
Channel 9	OFF Delay Timer	72	0048	5 to 65535		OFF Delay Setting Channel 9		30	mSec	R		
Channel 10	OFF Delay Timer	73	0049	5 to 65535		OFF Delay Setting Channel 10		30	mSec	R		
Channel 11	OFF Delay Timer	74	004A	5 to 65535		OFF Delay Setting Channel 11		30	mSec	R		
Channel 12	OFF Delay Timer	75	004B	5 to 65535		OFF Delay Setting Channel 12		30	mSec	R		
Channel 13	OFF Delay Timer	76	004C	5 to 65535		OFF Delay Setting Channel 13		30	mSec	R		
Channel 14	OFF Delay Timer	77	004D	5 to 65535		OFF Delay Setting Channel 14		30	mSec	R		
Channel 15	OFF Delay Timer	78	004E	5 to 65535		OFF Delay Setting Channel 15		30	mSec	R		
Channel 16	OFF Delay Timer	79	004F	5 to 65535		OFF Delay Setting Channel 16		30	mSec	R		
Channel 17	OFF Delay Timer	80	0050	5 to 65535		OFF Delay Setting Channel 17		30	mSec	R		
Channel 18	OFF Delay Timer	81	0051	5 to 65535		OFF Delay Setting Channel 18		30	mSec	R		
Channel 19	OFF Delay Timer	82	0052	5 to 65535		OFF Delay Setting Channel 19		30	mSec	R		
Channel 20	OFF Delay Timer	83	0053	5 to 65535		OFF Delay Setting Channel 20		30	mSec	R		
Channel 21	OFF Delay Timer	84	0054	5 to 65535		OFF Delay Setting Channel 21		30	mSec	R		
Channel 22	OFF Delay Timer	85	0055	5 to 65535		OFF Delay Setting Channel 22		30	mSec	R		
Channel 23	OFF Delay Timer	86	0056	5 to 65535		OFF Delay Setting Channel 23		30	mSec	R		
Channel 24	OFF Delay Timer	87	0057	5 to 65535		OFF Delay Setting Channel 24		30	mSec	R		
Channel 1	Color ON state	88	0058	0	1 to 7	0	Color ON State of Channel 1	0	7	R	RED	1
Channel 2	Color ON state	89	0059	0	1 to 7	0	Color ON State of Channel 2	0	7	R	GREEN	2
Channel 3	Color ON state	90	005A	0	1 to 7	0	Color ON State of Channel 3	0	7	R	YELLOW	3
Channel 4	Color ON state	91	005B	0	1 to 7	0	Color ON State of Channel 4	0	7	R	BLUE	4
Channel 5	Color ON state	92	005C	0	1 to 7	0	Color ON State of Channel 5	0	7	R	MAGENTA	5
Channel 6	Color ON state	93	005D	0	1 to 7	0	Color ON State of Channel 6	0	7	R	CYAN	6
Channel 7	Color ON state	94	005E	0	1 to 7	0	Color ON State of Channel 7	0	7	R	WHITE	7
Channel 8	Color ON state	95	005F	0	1 to 7	0	Color ON State of Channel 8	0	7	R		
Channel 9	Color ON state	96	0060	0	1 to 7	0	Color ON State of Channel 9	0	7	R		



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Channel 10	Color ON state	97	0061	0	1 to 7	0	Color ON State of Channel 10	0	7		R						
Channel 11	Color ON state	98	0062	0	1 to 7	0	Color ON State of Channel 11	0	7		R						
Channel 12	Color ON state	99	0063	0	1 to 7	0	Color ON State of Channel 12	0	7		R						
Channel 13	Color ON state	100	0064	0	1 to 7	0	Color ON State of Channel 13	0	7		R						
Channel 14	Color ON state	101	0065	0	1 to 7	0	Color ON State of Channel 14	0	7		R						
Channel 15	Color ON state	102	0066	0	1 to 7	0	Color ON State of Channel 15	0	7		R						
Channel 16	Color ON state	103	0067	0	1 to 7	0	Color ON State of Channel 16	0	7		R						
Channel 17	Color ON state	104	0068	0	1 to 7	0	Color ON State of Channel 17	0	7		R						
Channel 18	Color ON state	105	0069	0	1 to 7	0	Color ON State of Channel 18	0	7		R						
Channel 19	Color ON state	106	006A	0	1 to 7	0	Color ON State of Channel 19	0	7		R						
Channel 20	Color ON state	107	006B	0	1 to 7	0	Color ON State of Channel 20	0	7		R						
Channel 21	Color ON state	108	006C	0	1 to 7	0	Color ON State of Channel 21	0	7		R						
Channel 22	Color ON state	109	006D	0	1 to 7	0	Color ON State of Channel 22	0	7		R						
Channel 23	Color ON state	110	006E	0	1 to 7	0	Color ON State of Channel 23	0	7		R						
Channel 24	Color ON state	111	006F	0	1 to 7	0	Color ON State of Channel 24	0	7		R						
Channel 1	Color OFF state	112	0070	0	0 to 7	0	Color OFF State of Channel 1	0	7		R	BLACK	0	Custom Order سفارش خاص			
Channel 2	Color OFF state	113	0071	0	0 to 7	0	Color OFF State of Channel 2	0	7		R	RED	1				
Channel 3	Color OFF state	114	0072	0	0 to 7	0	Color OFF State of Channel 3	0	7		R	GREEN	2				
Channel 4	Color OFF state	115	0073	0	0 to 7	0	Color OFF State of Channel 4	0	7		R	YELLOW	3				
Channel 5	Color OFF state	116	0074	0	0 to 7	0	Color OFF State of Channel 5	0	7		R	BLUE	4				
Channel 6	Color OFF state	117	0075	0	0 to 7	0	Color OFF State of Channel 6	0	7		R	MAGENTA	5				
Channel 7	Color OFF state	118	0076	0	0 to 7	0	Color OFF State of Channel 7	0	7		R	CYAN	6				
Channel 8	Color OFF state	119	0077	0	0 to 7	0	Color OFF State of Channel 8	0	7		R	WHITE	7	Custom Order سفارش خاص			
Channel 9	Color OFF state	120	0078	0	0 to 7	0	Color OFF State of Channel 9	0	7		R						
Channel 10	Color OFF state	121	0079	0	0 to 7	0	Color OFF State of Channel 10	0	7		R						
Channel 11	Color OFF state	122	007A	0	0 to 7	0	Color OFF State of Channel 11	0	7		R						
Channel 12	Color OFF state	123	007B	0	0 to 7	0	Color OFF State of Channel 12	0	7		R						
Channel 13	Color OFF state	124	007C	0	0 to 7	0	Color OFF State of Channel 13	0	7		R						
Channel 14	Color OFF state	125	007D	0	0 to 7	0	Color OFF State of Channel 14	0	7		R						
Channel 15	Color OFF state	126	007E	0	0 to 7	0	Color OFF State of Channel 15	0	7		R						
Channel 16	Color OFF state	127	007F	0	0 to 7	0	Color OFF State of Channel 16	0	7		R						
Channel 17	Color OFF state	128	0080	0	0 to 7	0	Color OFF State of Channel 17	0	7		R						
Channel 18	Color OFF state	129	0081	0	0 to 7	0	Color OFF State of Channel 18	0	7		R						
Channel 19	Color OFF state	130	0082	0	0 to 7	0	Color OFF State of Channel 19	0	7		R						
Channel 20	Color OFF state	131	0083	0	0 to 7	0	Color OFF State of Channel 20	0	7		R						
Channel 21	Color OFF state	132	0084	0	0 to 7	0	Color OFF State of Channel 21	0	7		R						
Channel 22	Color OFF state	133	0085	0	0 to 7	0	Color OFF State of Channel 22	0	7		R						
Channel 23	Color OFF state	134	0086	0	0 to 7	0	Color OFF State of Channel 23	0	7		R						
Channel 24	Color OFF state	135	0087	0	0 to 7	0	Color OFF State of Channel 24	0	7		R						
Channel 1	ISA Sequence	136	0088	0		0	ISA Sequence of Channel 1	0	85		R	ISA-2C	55h	85	Custom Order سفارش خاص		
Channel 2	ISA Sequence	137	0089	0		0	ISA Sequence of Channel 2	0	85		R	ISA-A	5Ah	90			
Channel 3	ISA Sequence	138	008A	0		0	ISA Sequence of Channel 3	0	85		R	ISA-F2A	A5h	165			
Channel 4	ISA Sequence	139	008B	0		0	ISA Sequence of Channel 4	0	85		R	ISA-F3M	Aah	170			



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Channel 5	ISA Sequence	140	008C	0	85 , 90 , 165 , 170 , 53 , 60	0	ISA Sequence of Channel 5	0	85		R	ISA-F3A	35h	53	Custom Order سفارش خاص
Channel 6	ISA Sequence	141	008D	0		0	ISA Sequence of Channel 6	0	85		R				
Channel 7	ISA Sequence	142	008E	0		0	ISA Sequence of Channel 7	0	85		R				
Channel 8	ISA Sequence	143	008F	0		0	ISA Sequence of Channel 8	0	85		R				
Channel 9	ISA Sequence	144	0090	0		0	ISA Sequence of Channel 9	0	85		R				
Channel 10	ISA Sequence	145	0091	0		0	ISA Sequence of Channel 10	0	85		R				
Channel 11	ISA Sequence	146	0092	0		0	ISA Sequence of Channel 11	0	85		R				
Channel 12	ISA Sequence	147	0093	0		0	ISA Sequence of Channel 12	0	85		R				
Channel 13	ISA Sequence	148	0094	0		0	ISA Sequence of Channel 13	0	85		R				
Channel 14	ISA Sequence	149	0095	0		0	ISA Sequence of Channel 14	0	85		R				
Channel 15	ISA Sequence	150	0096	0		0	ISA Sequence of Channel 15	0	85		R				
Channel 16	ISA Sequence	151	0097	0		0	ISA Sequence of Channel 16	0	85		R				
Channel 17	ISA Sequence	152	0098	0		0	ISA Sequence of Channel 17	0	85		R				
Channel 18	ISA Sequence	153	0099	0		0	ISA Sequence of Channel 18	0	85		R				
Channel 19	ISA Sequence	154	009A	0		0	ISA Sequence of Channel 19	0	85		R				
Channel 20	ISA Sequence	155	009B	0		0	ISA Sequence of Channel 20	0	85		R				
Channel 21	ISA Sequence	156	009C	0		0	ISA Sequence of Channel 21	0	85		R				
Channel 22	ISA Sequence	157	009D	0		0	ISA Sequence of Channel 22	0	85		R				
Channel 23	ISA Sequence	158	009E	0		0	ISA Sequence of Channel 23	0	85		R				
Channel 24	ISA Sequence	159	009F	0		0	ISA Sequence of Channel 24	0	85		R				
Channel 1	Input status Indication	160	00A0	0	01b or 10b	0	Double Point Input of Channel 1	0	2		R	Comment	bit 1	bit 0	
Channel 2	Input status Indication	161	00A1	0	01b or 10b	0	Double Point Input of Channel 2	0	2		R		0	0	
Channel 3	Input status Indication	162	00A2	0	01b or 10b	0	Double Point Input of Channel 3	0	2		R	Faulty Position	0	1	
Channel 4	Input status Indication	163	00A3	0	01b or 10b	0	Double Point Input of Channel 4	0	2		R	Normal Position	1	0	
Channel 5	Input status Indication	164	00A4	0	01b or 10b	0	Double Point Input of Channel 5	0	2		R		1	1	
Channel 6	Input status Indication	165	00A5	0	01b or 10b	0	Double Point Input of Channel 6	0	2		R				
Channel 7	Input status Indication	166	00A6	0	01b or 10b	0	Double Point Input of Channel 7	0	2		R				
Channel 8	Input status Indication	167	00A7	0	01b or 10b	0	Double Point Input of Channel 8	0	2		R				
Channel 9	Input status Indication	168	00A8	0	01b or 10b	0	Double Point Input of Channel 9	0	2		R				
Channel 10	Input status Indication	169	00A9	0	01b or 10b	0	Double Point Input of Channel 10	0	2		R				
Channel 11	Input status Indication	170	00AA	0	01b or 10b	0	Double Point Input of Channel 11	0	2		R				
Channel 12	Input status Indication	171	00AB	0	01b or 10b	0	Double Point Input of Channel 12	0	2		R				
Channel 13	Input status Indication	172	00AC	0	01b or 10b	0	Double Point Input of Channel 13	0	2		R				
Channel 14	Input status Indication	173	00AD	0	01b or 10b	0	Double Point Input of Channel 14	0	2		R				
Channel 15	Input status Indication	174	00AE	0	01b or 10b	0	Double Point Input of Channel 15	0	2		R				
Channel 16	Input status Indication	175	00AF	0	01b or 10b	0	Double Point Input of Channel 16	0	2		R				
Channel 17	Input status Indication	176	00B0	0	01b or 10b	0	Double Point Input of Channel 17	0	2		R				
Channel 18	Input status Indication	177	00B1	0	01b or 10b	0	Double Point Input of Channel 18	0	2		R				
Channel 19	Input status Indication	178	00B2	0	01b or 10b	0	Double Point Input of Channel 19	0	2		R				
Channel 20	Input status Indication	179	00B3	0	01b or 10b	0	Double Point Input of Channel 20	0	2		R				
Channel 21	Input status Indication	180	00B4	0	01b or 10b	0	Double Point Input of Channel 21	0	2		R				
Channel 22	Input status Indication	181	00B5	0	01b or 10b	0	Double Point Input of Channel 22	0	2		R				
Channel 23	Input status Indication	182	00B6	0	01b or 10b	0	Double Point Input of Channel 23	0	2		R				



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Channel 24	Input status Indication	183	00B7	0	01b or 10b	0	Double Point Input of Channel 24	0	2		R																		
Channel 1 - 8	Input status Indication (Refer to function5 address 4)	184	00B8	5555h to AAAAh		Double Point Input of Channel 1 - 8 (2bit for each channel)		55h	55h		R	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0		
												I _{m8}	I _{m8}	I _{m7}	I _{m7}	I _{m6}	I _{m6}	I _{m5}	I _{m5}	I _{m4}	I _{m4}	I _{m3}	I _{m3}	I _{m2}	I _{m2}	I _{m1}	I _{m1}		
Channel 9 - 16	Input status Indication (Refer to function5 address 4)	185	00B9	5555h to AAAAh		Double Point Input of Channel 9 - 16 (2bit for each channel)		55h	55h		R	Normal Position for each input= 10 / Faulty Position for each input= 01 Independent of push buttons status																	
Channel 17 - 24	Input status Indication (Refer to function5 address 4)	186	00BA	5555h to AAAAh		Double Point Input of Channel 17 - 24 (2bit for each channel)		55h	55h		R																		
Channel 1 - 8	Input status Indication (Refer to function5 address 4)	187	00BB	AAAAh to 5555h		Double Point Input of Channel 1 - 8 (2bit for each channel)		AAh	AAh		R	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0		
												I _{m8}	I _{m8}	I _{m7}	I _{m7}	I _{m6}	I _{m6}	I _{m5}	I _{m5}	I _{m4}	I _{m4}	I _{m3}	I _{m3}	I _{m2}	I _{m2}	I _{m1}	I _{m1}		
Channel 9 - 16	Input status Indication (Refer to function5 address 4)	188	00BC	AAAAh to 5555h		Double Point Input of Channel 9 - 16 (2bit for each channel)		AAh	AAh		R	Normal Position for each input= 01 / Faulty Position for each input= 10 Independent of push buttons status																	
Channel 17 - 24	Input status Indication (Refer to function5 address 4)	189	00BD	AAAAh to 5555h		Double Point Input of Channel 17 - 24 (2bit for each channel)		AAh	AAh		R																		
Channel 1 - 16	Input status Indication (Refer to function5 address 4)	190	00BE	0b or 1b	0b or 1b	Single Point Input of Channel 1 - 16 (1bit for each channel)		0	0		R																		
Channel 17 - 24	Input status Indication (Refer to function5 address 4)	191	00BF	0	0b or 1b	0	Single Point Input of Channel 17 - 24 (1bit for each channel)	0	0		R	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0		
												I _{m16}	I _{m15}	I _{m14}	I _{m13}	I _{m12}	I _{m11}	I _{m10}	I _{m9}	I _{m8}	I _{m7}	I _{m6}	I _{m5}	I _{m4}	I _{m3}	I _{m2}	I _{m1}		
Beep Time		192	00C0	10 to 200		Beep Time (mSec) Setting		30		mSec	R/W																		
V. Fast Flash Time		193	00C1	200-800		Very Fast Flash Per Minute Setting		500		/ minute	R/W																		
Fast Flash Time		194	00C2	100-600		Fast Flash Per Minute Setting		270		/ minute	R/W																		
Normal Flash Time		195	00C3	20-150		Normal Flash Per Minute Setting		54		/ minute	R/W																		
Slow Flash Time		196	00C4	10-100		Slow Flash Per Minute Setting		15		/ minute	R/W																		
P. Flash Time		197	00C5	100-800		Programming Flash Per Minute Setting		300		/ minute	R/W																		
CPU LAST ERROR		198	00C6			Use By Manufacturer		OXFFFF																					
Cpu Error Counter		199	00C7	0 to 65535		Cpu Error Counter		0			R																		
Programming exit counter		200	00C8	0 to 65535		Programming exit counter		0			R																		
Power ON Reset Counter		201	00C9	0 to 65535		Power ON Reset Counter		0			R																		
External Reset Counter		202	00CA	0 to 65535		External Reset Counter		0			R																		
Brown Out Reset Counter		203	00CB	0 to 65535		Brown Out Reset Counter		0			R																		
Watchdog Reset Counter		204	00CC	0 to 65535		Watchdog Reset Counter		0			R																		
EEPROM Crash Counter		205	00CD	0 to 65535		EEPROM Crash Counter		0			R																		
Factory Reset Counter		206	00CE	1 to 65535		Factory Reset Counter		0			R																		

A22-5nn ADDRESS TABLE				Function 05 Write Single Coil						
Name	Address		Range	Explain		initial	Unit	Read/Write	Note	
	Decimal	Hexadecimal		High Byte	Low Byte				Preset Single Coil ON	Preset Single Coil OFF
Horn Off P.B. exist	1	0001	ON or OFF	Horn Off P.B. exist (3 or 4 Push Botton action)		ON		W	YES	NO
Horn Test require	2	0002	ON or OFF	Horn Test require (Horn test in Lamp test function require?)		ON		W	YES	NO
Internal Horn	3	0003	ON or OFF	Internal Horn ON / OFF (Internal Buzzer)		ON		W	ON	OFF
Selecting Indication of Input status	4	0004	ON or OFF	Indication "non Acknowledged Alarm Channel" or Input Channel		ON		W	Indication non Acknowledged Alarm channel	Indication Input channel
									نمایش خطا تا زمانی ادامه خواهد داشت که توسط کاربر اکتالاج (Acknowledge) شود. در این حالت، حتی در صورت رفع خطا از روی دستگاه، پیام خطا تا زمان اکتالاج کاربر باقی خواهد ماند. The error remains displayed until it is acknowledged by the user. In this mode, the error message will persist even if the actual error condition on the device has already .been resolved	نمایش خطا تنها تا زمانی ادامه خواهد داشت که خطا به صورت واقعی به دستگاه اعمال شود. با برطرف شدن خطا، نمایش آن نیز متوقف می شود. The error is displayed only as long as the .error is actually applied to the device Once the error is cleared, the display will .automatically clear
Horn Off P.B.	85	0055	ON	Press Horn Off Push Botton		N/A		W	YES	N/A
Acknowledge P.B.	90	005A	ON	Press Acknowledge Push Botton		N/A		W	YES	N/A
Reset P.B.	165	00A5	ON	Press Reset Push Botton		N/A		W	YES	N/A
Reset Priority P.B.	163	00A3	ON	Press Reset Priority Push Botton		N/A		W	YES	N/A
Lamp Test P.B.	170	00AA	ON	Press Lamp Test Push Botton		N/A		W	YES	N/A
Dimmer Down P.B.	53	0035	ON	Decrease LEDs Light		N/A		W	YES	N/A
Dimmer Up P.B.	58	003A	ON	Increase LEDs Light		N/A		W	YES	N/A

A22-5nn ADDRESS TABLE					Function 06 Write Single Register											
Name	Address		Range		Explain		initial	Unit	Read/Write	Note						
	Decimal	Hexadecimal	High Byte	Low Byte	High Byte	Low Byte					HEX	DEC				
Push Button Command	2	0002	0		0	Push Button Command			W	Horn Off P.B.	0055	85				
										Acknowledge P.B.	005A	90				
										Reset P.B.	00A5	165				
										Reset Priority P.B.	00A3	163				
										Lamp Test P.B.	00AA	170				
										Dimmer Down P.B.	0035	53				
										Dimmer Up P.B.	003A	58				
ISA Sequence Setting	3	0003	0	85 , 90 , 165 , 170 , 53 , 60	0	ISA Sequence Setting			W	ISA-2C	0055	85				
										ISA-A	005A	90				
										ISA-F2A	00A5	165				
										ISA-F3M	00AA	170				
										ISA-F3A (not available)	0035	53				
										Simple window	003C	60				
Automatic Turn Off HORN	4	0004	0 to 1800 second Down Timer		Non Critical horn off timer		600	Sec	W							
	5	0005	0 to 1800 second Down Timer		Critical horn off timer		600	Sec	W							
Trip Relay Type	6	0006	0	85 , 90 , 165	Trip Relay Type Setting		85		W	Trip Relay Type 1	0055	85	Denergized By RESET P.B. & Reset All Alarm origin			
										Trip Relay Type 2	005A	90	Denergized By ACK. P.B. & Reset All Alarm origin			
										Trip Relay Type 3	00A5	165	Denergized By Reset Alarm origin			
										Trip Relay Type 4	00B9	185	Denergized By RESET P.B. & Reset only Trip origin (Critical faults)			
										Trip Relay Type 5	0035	53	Denergized By Power Fail			
ID Address	7	0007		1 to 247	Device Address RS485 Communication		0	247		W	Change the MODBUS ID is Available in PROGRAMMING MODE only& @ ID address : 255					
Baud Rate	10	000A	00h to 07h		Baud Rate of RS-485 Communication		0005H	Bit/S	R\W	Baud Rate	00h	300				
											01h	600				
											02h	1200				
											03h	2400				
											04h	4800				
											05h	9600				
											06h	14400				
											07h	19200				
Parity & Stop bit	11	000B	01h to 05h		Parity & Baud Rate Communication		0004H		R/W	Parity & Stop bit	00h	None parity 1 Stop bit				
											01h	None parity 2 Stop bit				
											02h	Odd parity 1 Stop bit				
											03h	Odd parity 2 Stop bit				
											04h	Even parity 1 Stop bit				
											05h	Even parity 2 Stop bit				
Pass Word	12	000C	0 to 9999		Pass Word		1234		W							
Date Number	13	000D	(00D - 99D)H (01D - 12D)L		Year	Month	YM		W							
Seial Number	14	000E	0 to 65535		Serial Number		SN		W							

A22-5nn ADDRESS TABLE					Function 16 Write Multiple Registers															
Name	Address		Register Address		Explain		Channel Number	Unit	Read/Write	Note										
	Decimal	Hexadecimal	Decimal	Hexadecimal	High Byte	Low Byte						High Byte		Low Byte						
Input Logic , Urgent Satatus & Alarm or Signal Input Setting All channels (Range are limited same as side table)	1	0001	1	0001	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	1		w	Each Register Pattern	DEC	HEX		DEC	HEX					
			2	0002	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	2			Non Critical - Normaly OPEN	85	55	لطفا اعداد را به صورت اعمال Hex بفرمایید. Please apply the numbers in Hex .format	170	AA					
			3	0003	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	3			Non Critical - Normaly CLOSE	85	55		85	55					
			4	0004	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	4			Critical - Normaly OPEN	170	AA		170	AA					
			5	0005	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	5			Critical - Normaly CLOSE	170	AA		85	55					
			6	0006	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	6			Signal Lamp - Normaly OPEN	90	5A		170	AA					
			7	0007	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	7			Signal Lamp - Normaly CLOSE	90	5A		85	55					
			8	0008	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	8			Function 16 Write در حتما باید که پنجره های آلارم داده وارد شود. یعنی مثلا اگر دستگاه شما 24 پنجره است حتما باید همه ی 24 پنجره عدد وارد شود و اگر فقط بخواهید تعداد 10 پنجره را مقدار دهی کنید با خطا مواجه میشوید. یا برای مثال اگر دستگاه شما 16 پنجره است حتما باید تعداد کل 16 پنجره دیتا بگیرد و نمیتوان فقط 8 یا 7 عدد از پنجره ها را مقدار دهی کرد. ممچنین برای تنظیمات بحرانی و غیر بحرانی و همچنین نرمالی این و نرمالی کلوز بهتر است دستگاه مستر خود را به صورت اعداد Hex تنظیم کنید و سپس طبق جدول فوق عدد مورد نظر را برای بیت های پر ارزش، جهت تنظیم حالت بحرانی و غیر بحرانی و یا لامپ سیگنال وارد نمایید و سپس در سمت بیت های کم ارزش مقدار نرمالی این و نرمالی کلوز را بنویسید. برای مثال برای تنظیم پنجره شماره ی 3 به حالت بحرانی و نرمالی کلوز از ترکیب زیر استفاده میکنیم. 0xAA55 در اینجا بیت پر ارزش AA (تنظیم حالت بحرانی) است و بیت کم ارزش 55 (تنظیم نرمالی کلوز) است										
			9	0009	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	9													
			10	000A	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	10													
			11	000B	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	11													
			12	000C	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	12													
			13	000D	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	13													
			14	000E	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	14													
			15	000F	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	15													
			16	0010	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	16													
			17	0011	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	17													
			18	0012	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	18													
			19	0013	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	19													
			20	0014	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	20													
			21	0015	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	21													
			22	0016	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	22													
			23	0017	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	23													
			24	0018	Critical/Non Critical/Signal Lamp	Normaly OPEN / CLOSE	24													
			1	0001	ON Delay Timer Setting		1	mSec.												
			2	0002	ON Delay Timer Setting		2	mSec.												
			3	0003	ON Delay Timer Setting		3	mSec.												
			4	0004	ON Delay Timer Setting		4	mSec.												
			5	0005	ON Delay Timer Setting		5	mSec.												
			6	0006	ON Delay Timer Setting		6	mSec.												

On Delay Timer Setting All channels (5 to 65000mSec.)	2	0002	7	0007	ON Delay Timer Setting	7	mSec.	W	
			8	0008	ON Delay Timer Setting	8	mSec.		
			9	0009	ON Delay Timer Setting	9	mSec.		
			10	000A	ON Delay Timer Setting	10	mSec.		
			11	000B	ON Delay Timer Setting	11	mSec.		
			12	000C	ON Delay Timer Setting	12	mSec.		
			13	000D	ON Delay Timer Setting	13	mSec.		
			14	000E	ON Delay Timer Setting	14	mSec.		
			15	000F	ON Delay Timer Setting	15	mSec.		
			16	0010	ON Delay Timer Setting	16	mSec.		
			17	0011	ON Delay Timer Setting	17	mSec.		
			18	0012	ON Delay Timer Setting	18	mSec.		
			19	0013	ON Delay Timer Setting	19	mSec.		
			20	0014	ON Delay Timer Setting	20	mSec.		
			21	0015	ON Delay Timer Setting	21	mSec.		
			22	0016	ON Delay Timer Setting	22	mSec.		
			23	0017	ON Delay Timer Setting	23	mSec.		
			24	0018	ON Delay Timer Setting	24	mSec.		
			1	0001	OFF Delay Timer Setting	1	mSec.		
			2	0002	OFF Delay Timer Setting	2	mSec.		
			3	0003	OFF Delay Timer Setting	3	mSec.		
			4	0004	OFF Delay Timer Setting	4	mSec.		
			5	0005	OFF Delay Timer Setting	5	mSec.		
			6	0006	OFF Delay Timer Setting	6	mSec.		
			7	0007	OFF Delay Timer Setting	7	mSec.		
			8	0008	OFF Delay Timer Setting	8	mSec.		
			9	0009	OFF Delay Timer Setting	9	mSec.		
			10	000A	OFF Delay Timer Setting	10	mSec.		
			11	000B	OFF Delay Timer Setting	11	mSec.		
			12	000C	OFF Delay Timer Setting	12	mSec.		
			13	000D	OFF Delay Timer Setting	13	mSec.		
			14	000E	OFF Delay Timer Setting	14	mSec.		
			15	000F	OFF Delay Timer Setting	15	mSec.		
			16	0010	OFF Delay Timer Setting	16	mSec.		
			17	0011	OFF Delay Timer Setting	17	mSec.		
Off Delay Timer Setting All channels (5 to 65000mSec.)	3	0003	1	0001	OFF Delay Timer Setting	1	mSec.	W	
			2	0002	OFF Delay Timer Setting	2	mSec.		
			3	0003	OFF Delay Timer Setting	3	mSec.		
			4	0004	OFF Delay Timer Setting	4	mSec.		
			5	0005	OFF Delay Timer Setting	5	mSec.		
			6	0006	OFF Delay Timer Setting	6	mSec.		
			7	0007	OFF Delay Timer Setting	7	mSec.		
			8	0008	OFF Delay Timer Setting	8	mSec.		
			9	0009	OFF Delay Timer Setting	9	mSec.		
			10	000A	OFF Delay Timer Setting	10	mSec.		
			11	000B	OFF Delay Timer Setting	11	mSec.		
			12	000C	OFF Delay Timer Setting	12	mSec.		
			13	000D	OFF Delay Timer Setting	13	mSec.		
			14	000E	OFF Delay Timer Setting	14	mSec.		
			15	000F	OFF Delay Timer Setting	15	mSec.		
			16	0010	OFF Delay Timer Setting	16	mSec.		
			17	0011	OFF Delay Timer Setting	17	mSec.		



			18	0012	OFF Delay Timer Setting		18	mSec.				
			19	0013	OFF Delay Timer Setting		19	mSec.				
			20	0014	OFF Delay Timer Setting		20	mSec.				
			21	0015	OFF Delay Timer Setting		21	mSec.				
			22	0016	OFF Delay Timer Setting		22	mSec.				
			23	0017	OFF Delay Timer Setting		23	mSec.				
			24	0018	OFF Delay Timer Setting		24	mSec.				
Colour Setting for all channels	4	0004	1	0001	0	ON State Window Color Setting	1		W	RED	1	
			2	0002	0	ON State Window Color Setting	2			GREEN	2	
			3	0003	0	ON State Window Color Setting	3			YELLOW	3	
			4	0004	0	ON State Window Color Setting	4			BLUE	4	
			5	0005	0	ON State Window Color Setting	5			MAGENTA	5	
			6	0006	0	ON State Window Color Setting	6			CYAN	6	
			7	0007	0	ON State Window Color Setting	7			WHITE	7	
			8	0008	0	ON State Window Color Setting	8					
			9	0009	0	ON State Window Color Setting	9					
			10	000A	0	ON State Window Color Setting	10					
			11	000B	0	ON State Window Color Setting	11					
			12	000C	0	ON State Window Color Setting	12					
			13	000D	0	ON State Window Color Setting	13					
			14	000E	0	ON State Window Color Setting	14					
			15	000F	0	ON State Window Color Setting	15					
			16	0010	0	ON State Window Color Setting	16					
			17	0011	0	ON State Window Color Setting	17					
			18	0012	0	ON State Window Color Setting	18					
			19	0013	0	ON State Window Color Setting	19					
			20	0014	0	ON State Window Color Setting	20					
			21	0015	0	ON State Window Color Setting	21					
			22	0016	0	ON State Window Color Setting	22					
			23	0017	0	ON State Window Color Setting	23					
			24	0018	0	ON State Window Color Setting	24					
			1	0001	0	OFF State Window Color Setting	1	mSec.		BLACK	0	Custom Order
			2	0002	0	OFF State Window Color Setting	2	mSec.		RED	1	
			3	0003	0	OFF State Window Color Setting	3	mSec.		GREEN	2	
			4	0004	0	OFF State Window Color Setting	4	mSec.		YELLOW	3	



OFF Colour Setting for all channels	5	0005	5	0005	0	OFF State Window Color Setting	5	mSec.	W	سفارش خاص									
			6	0006	0	OFF State Window Color Setting	6	mSec.		BLUE	4								
			7	0007	0	OFF State Window Color Setting	7	mSec.		MAGENTA	5								
			8	0008	0	OFF State Window Color Setting	8	mSec.		CYAN	6								
			9	0009	0	OFF State Window Color Setting	9	mSec.		WHITE	7								
			10	000A	0	OFF State Window Color Setting	10	mSec.		Custom Order سفارش خاص									
			11	000B	0	OFF State Window Color Setting	11	mSec.											
			12	000C	0	OFF State Window Color Setting	12	mSec.											
			13	000D	0	OFF State Window Color Setting	13	mSec.											
			14	000E	0	OFF State Window Color Setting	14	mSec.											
			15	000F	0	OFF State Window Color Setting	15	mSec.											
			16	0010	0	OFF State Window Color Setting	16	mSec.											
			17	0011	0	OFF State Window Color Setting	17	mSec.											
			18	0012	0	OFF State Window Color Setting	18	mSec.											
			19	0013	0	OFF State Window Color Setting	19	mSec.											
			20	0014	0	OFF State Window Color Setting	20	mSec.											
			21	0015	0	OFF State Window Color Setting	21	mSec.											
			22	0016	0	OFF State Window Color Setting	22	mSec.											
			23	0017	0	OFF State Window Color Setting	23	mSec.											
			24	0018	0	OFF State Window Color Setting	24	mSec.											
			ISA Sequence for all channels	6	0006	1	0001	0				ISA Sequence Setting	1	mSec.	W	ISA-2C	55h	85	Custom Order سفارش خاص
						2	0002	0				ISA Sequence Setting	2	mSec.		ISA-A	5Ah	90	
						3	0003	0				ISA Sequence Setting	3	mSec.		ISA-F2A	A5h	165	
						4	0004	0				ISA Sequence Setting	4	mSec.		ISA-F3M	Aah	170	
5	0005	0				ISA Sequence Setting	5	mSec.	ISA-F3A			35h	53						
6	0006	0				ISA Sequence Setting	6	mSec.	Custom Order سفارش خاص										
7	0007	0				ISA Sequence Setting	7	mSec.											
8	0008	0				ISA Sequence Setting	8	mSec.											
9	0009	0				ISA Sequence Setting	9	mSec.											
10	000A	0				ISA Sequence Setting	10	mSec.											
11	000B	0				ISA Sequence Setting	11	mSec.											
12	000C	0				ISA Sequence Setting	12	mSec.											
13	000D	0				ISA Sequence Setting	13	mSec.											
14	000E	0				ISA Sequence Setting	14	mSec.											
15	000F	0				ISA Sequence Setting	15	mSec.											



			16	0010	0	ISA Sequence Setting	16	mSec.	
			17	0011	0	ISA Sequence Setting	17	mSec.	
			18	0012	0	ISA Sequence Setting	18	mSec.	
			19	0013	0	ISA Sequence Setting	19	mSec.	
			20	0014	0	ISA Sequence Setting	20	mSec.	
			21	0015	0	ISA Sequence Setting	21	mSec.	
			22	0016	0	ISA Sequence Setting	22	mSec.	
			23	0017	0	ISA Sequence Setting	23	mSec.	
			24	0018	0	ISA Sequence Setting	24	mSec.	