

A21-5nn 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					" 1 "	" - "		R	"1" "-" Ascii Code	
	2	0002					" 5 "	" nn "		R	"5" "nn" Ascii Code	
	3	0003					" F "	" N "		R	"F" "N" Ascii Code	
	4	0004						RX TX Couner	" P "	0		R
Version	5	0005	00 to 256	00 to 256	Hard Ware Version	Soft Ware Version	SW	HW		R	Soft ware & Hard ware 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		
Pass Word	8	0008	0 to 9999		Pass Word		1234			R		
ID Address	9	0009		1 to 247	Device Address RS485 Communication		0	247		R	Default MODBUS ID address is : 247	
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	19600
Parity & Stop bit	11	000B	01h to 05h		Parity & Baud Rate 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 , 170 , 53 , 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	35h	53

A21-5nn 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									
Alarm system Status	15	000F	00h to FFh	00h to FFh	Alarm System Status				R	Simple window	3Ch	60			
										Non Critical Horn Status	bit 0	0	Relay OFF	1	Relay ON
										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
										reserve	bit 8	0	For future define	1	For future define
										reserve	bit 9	0	For future define	1	For future define
										Trip Relay Type 1	bit 10	0	Deselect (Table 5)	1	Select (Table 5)
										Trip Relay Type 2	bit 11	0	Deselect (Table 5)	1	Select (Table 5)
										Trip Relay Type 3	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	16	0010			Bit pattern Status for Channel 1	00h	40h		R	Input	bit 0	0	Input channel LOW	1	Input channel HIGH
Channel 2	17	0011			Bit pattern Status for Channel 2	00h	40h		R	D Input	bit 1	0	Debounce input LOW	1	Debounce input HIGH
Channel 3	18	0012			Bit pattern Status for Channel 3	00h	40h		R	Alarm in	bit 2	0	Input fault deactive	1	Input fault active
Channel 4	19	0013			Bit pattern Status for Channel 4	00h	40h		R	Fst Alarm	bit 3	0	No First Alarm	1	First Alarm
Channel 5	20	0014			Bit pattern Status for Channel 5	00h	40h		R	NAck.	bit 4	0	No alarm	1	No acknowledge alarm
Channel 6	21	0015			Bit pattern Status for Channel 6	00h	40h		R	Ack.	bit 5	0	Reset Alarm	1	Acknowledge alarm
Channel 7	22	0016			Bit pattern Status for Channel 7	00h	40h		R	NO/NC	bit 6	0	NC channel	1	NO channel
Channel 8	23	0017			Bit pattern Status for Channel 8	00h	40h		R	Cr/NCr	bit 7	0	Non critical channel	1	Critical channel
Channel 9	24	0018			Bit pattern Status for Channel 9	00h	40h		R	Status	bit 8	0	Alarm or Fault	1	Signal (ON / OFF)
Channel 10	25	0019			Bit pattern Status for Channel 10	00h	40h		R	reserve	bit 9	0	For future define	1	For future define
Channel 11	26	001A			Bit pattern Status for Channel 11	00h	40h		R	reserve	bit 10	0	For future define	1	For future define
Channel 12	27	001B			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	28	001C			Bit pattern Status for Channel 13	00h	40h		R	Alarm Priority Number bit 1	bit 12				
Channel 14	29	001D			Bit pattern Status for Channel 14	00h	40h		R	Alarm Priority Number bit 2	bit 13				

A21-5nn 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						
Channel 15	30	001E			Bit pattern Status for Channel 15		00h	40h		R	Alarm Priority Number bit 3	bit 14
Channel 16	31	001F			Bit pattern Status for Channel 16		00h	40h		R	Alarm Priority Number bit 4	bit 15
Channel 17	32	0020			Bit pattern Status for Channel 17		00h	40h		R		
Channel 18	33	0021			Bit pattern Status for Channel 18		00h	40h		R		
Channel 19	34	0022			Bit pattern Status for Channel 19		00h	40h		R		
Channel 20	35	0023			Bit pattern Status for Channel 20		00h	40h		R		
Channel 21	36	0024			Bit pattern Status for Channel 21		00h	40h		R		
Channel 22	37	0025			Bit pattern Status for Channel 22		00h	40h		R		
Channel 23	38	0026			Bit pattern Status for Channel 23		00h	40h		R		
Channel 24	39	0027			Bit pattern Status for Channel 24		00h	40h		R		
R.F.D. Channel 1	40	0028			Fall Time Debounce Channel 1	Rise Time Debounce Channel 1	11	11	mSec	R		
R.F.D. Channel 2	41	0029			Fall Time Debounce Channel 2	Rise Time Debounce Channel 2	11	11	mSec	R		
R.F.D. Channel 3	42	002A			Fall Time Debounce Channel 3	Rise Time Debounce Channel 3	11	11	mSec	R		
R.F.D. Channel 4	43	002B			Fall Time Debounce Channel 4	Rise Time Debounce Channel 4	11	11	mSec	R		
R.F.D. Channel 5	44	002C			Fall Time Debounce Channel 5	Rise Time Debounce Channel 5	11	11	mSec	R		
R.F.D. Channel 6	45	002D			Fall Time Debounce Channel 6	Rise Time Debounce Channel 6	11	11	mSec	R		
R.F.D. Channel 7	46	002E			Fall Time Debounce Channel 7	Rise Time Debounce Channel 7	11	11	mSec	R		
R.F.D. Channel 8	47	002F			Fall Time Debounce Channel 8	Rise Time Debounce Channel 8	11	11	mSec	R		
R.F.D. Channel 9	48	0030			Fall Time Debounce Channel 9	Rise Time Debounce Channel 9	11	11	mSec	R		
R.F.D. Channel 10	49	0031			Fall Time Debounce Channel 10	Rise Time Debounce Channel 10	11	11	mSec	R		
R.F.D. Channel 11	50	0032			Fall Time Debounce Channel 11	Rise Time Debounce Channel 11	11	11	mSec	R		
R.F.D. Channel 12	51	0033			Fall Time Debounce Channel 12	Rise Time Debounce Channel 12	11	11	mSec	R		
R.F.D. Channel 13	52	0034			Fall Time Debounce Channel 13	Rise Time Debounce Channel 13	11	11	mSec	R		
R.F.D. Channel 14	53	0035			Fall Time Debounce Channel 14	Rise Time Debounce Channel 14	11	11	mSec	R		
R.F.D. Channel 15	54	0036			Fall Time Debounce Channel 15	Rise Time Debounce Channel 15	11	11	mSec	R		
R.F.D. Channel 16	55	0037			Fall Time Debounce Channel 16	Rise Time Debounce Channel 16	11	11	mSec	R		
R.F.D. Channel 17	56	0038			Fall Time Debounce Channel 17	Rise Time Debounce Channel 17	11	11	mSec	R		
R.F.D. Channel 18	57	0039			Fall Time Debounce Channel 18	Rise Time Debounce Channel 18	11	11	mSec	R		
R.F.D. Channel 19	58	003A			Fall Time Debounce Channel 19	Rise Time Debounce Channel 19	11	11	mSec	R		
R.F.D. Channel 20	59	003B			Fall Time Debounce Channel 20	Rise Time Debounce Channel 20	11	11	mSec	R		
R.F.D. Channel 21	60	003C			Fall Time Debounce Channel 21	Rise Time Debounce Channel 21	11	11	mSec	R		

A21-5nn 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					
R.F.D. Channel 22	61	003D			Fall Time Debounce Channel 22	Rise Time Debounce Channel 22	11	11	mSec	R	
R.F.D. Channel 23	62	003E			Fall Time Debounce Channel 23	Rise Time Debounce Channel 23	11	11	mSec	R	
R.F.D. Channel 24	63	003F			Fall Time Debounce Channel 24	Rise Time Debounce Channel 24	11	11	mSec	R	
Beep Time	64	0040	10 to 200		Beep Time (mSec) Setting		30		mSec	R/W	
V. Fast Flash Time	65	0041	200-800		Very Fast Flash Per Minute Setting		500		/ minute	R/W	
Fast Flash Time	66	0042	100-600		Fast Flash Per Minute Setting		270		/ minute	R/W	
Normal Flash Time	67	0043	20-150		Normal Flash Per Minute Setting		54		/ minute	R/W	
Slow Flash Time	68	0044	10-100		Slow Flash Per Minute Setting		30		/ minute	R/W	
P. Flash Time	69	0045	100-800		Programming Flash Per Minute Setting		300		/ minute	R/W	
CPU LAST ERROR	70	0046			Use By Manufacturer						
Reserve	71	0047									
Programming exit counter	72	0048	0 to 4,294,967,295		Programming exit counter		-			R	
	73	0049									
Cpu Error Counter	74	004A	0 to 4,294,967,295		Cpu Error Counter		-			R	
	75	004B									
Power ON Reset Counter	76	004C	0 to 4,294,967,295		Power ON Reset Counter		-			R	
	77	004D									
External Reset Counter	78	004E	0 to 4,294,967,295		External Reset Counter		-			R	
	79	004F									
Brown Out Reset Counter	80	0050	0 to 4,294,967,295		Brown Out Reset Counter		0			R	
	81	0051									
Watchdog Reset Counter	82	0052	0 to 4,294,967,295		Watchdog Reset Counter		-			R	
	83	0053									
EEPROM Crash Counter	84	0054	0 to 4,294,967,295		EEPROM Crash Counter		0			R	
	85	0055									

A21-5nn 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

A21-5nn 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.E+00		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	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 Alarm origin	
										Trip Relay Type 2	005A	90		Denergized By ACK. P.B. & Reset Alarm origin
										Trip Relay Type 3	00A5	165		
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	RW	Baud Rate	00h	300		
											01h	600		
											02h	1200		
											03h	2400		
											04h	4800		
											05h	9600		
											06h	14400		
											07h	19600		
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					

A21-5nn 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			
											Each Register Pattern	DEC	HEX	DEC	HEX
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	Normally OPEN / CLOSE	1	W							
			2	0002	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	2			Each Register Pattern	DEC	HEX	DEC	HEX	
			3	0003	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	3			Non Critical - Normally OPEN	90	5A	85	55	
			4	0004	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	4			Non Critical - Normally CLOSE	90	5A	170	AA	
			5	0005	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	5			Critical - Normally OPEN	170	AA	85	55	
			6	0006	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	6			Critical - Normally CLOSE	170	AA	170	AA	
			7	0007	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	7			Signal Lamp - Normally OPEN	90	5A	85	55	
			8	0008	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	8			Signal Lamp - Normally CLOSE	90	5A	170	AA	
			9	0009	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	9								
			10	000A	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	10								
			11	000B	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	11								
			12	000C	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	12								
			13	000D	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	13								
			14	000E	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	14								
			15	000F	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	15								
			16	0010	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	16								
			17	0011	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	17								
			18	0012	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	18								
			19	0013	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	19								
			20	0014	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	20								
			21	0015	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	21								
			22	0016	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	22								
			23	0017	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	23								
			24	0018	Critical/Non Critical/Signal Lamp	Normally OPEN / CLOSE	24								
Rise Time Debounce Setting All channels	2	0002	1	0001	0	Rise Time Debounce Setting	1	mSec.	W						
			2	0002	0	Rise Time Debounce Setting	2	mSec.							
			3	0003	0	Rise Time Debounce Setting	3	mSec.							
			4	0004	0	Rise Time Debounce Setting	4	mSec.							
			5	0005	0	Rise Time Debounce Setting	5	mSec.							
			6	0006	0	Rise Time Debounce Setting	6	mSec.							
			7	0007	0	Rise Time Debounce Setting	7	mSec.							
			8	0008	0	Rise Time Debounce Setting	8	mSec.							
			9	0009	0	Rise Time Debounce Setting	9	mSec.							
			10	000A	0	Rise Time Debounce Setting	10	mSec.							
			11	000B	0	Rise Time Debounce Setting	11	mSec.							
			12	000C	0	Rise Time Debounce Setting	12	mSec.							

A21-5nn 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
Setting All channels ( 5 to 250mSec.)	2	0002	13	000D	0	Rise Time Debounce Setting	13	mSec.	W		
			14	000E	0	Rise Time Debounce Setting	14	mSec.			
			15	000F	0	Rise Time Debounce Setting	15	mSec.			
			16	0010	0	Rise Time Debounce Setting	16	mSec.			
			17	0011	0	Rise Time Debounce Setting	17	mSec.			
			18	0012	0	Rise Time Debounce Setting	18	mSec.			
			19	0013	0	Rise Time Debounce Setting	19	mSec.			
			20	0014	0	Rise Time Debounce Setting	20	mSec.			
			21	0015	0	Rise Time Debounce Setting	21	mSec.			
			22	0016	0	Rise Time Debounce Setting	22	mSec.			
			23	0017	0	Rise Time Debounce Setting	23	mSec.			
			24	0018	0	Rise Time Debounce Setting	24	mSec.			
Rise Time Debounce Setting All channels ( 5 to 250mSec.)	3	0003	1	0001	0	Fall Time Debounce Setting	1	mSec.	W		
			2	0002	0	Fall Time Debounce Setting	2	mSec.			
			3	0003	0	Fall Time Debounce Setting	3	mSec.			
			4	0004	0	Fall Time Debounce Setting	4	mSec.			
			5	0005	0	Fall Time Debounce Setting	5	mSec.			
			6	0006	0	Fall Time Debounce Setting	6	mSec.			
			7	0007	0	Fall Time Debounce Setting	7	mSec.			
			8	0008	0	Fall Time Debounce Setting	8	mSec.			
			9	0009	0	Fall Time Debounce Setting	9	mSec.			
			10	000A	0	Fall Time Debounce Setting	10	mSec.			
			11	000B	0	Fall Time Debounce Setting	11	mSec.			
			12	000C	0	Fall Time Debounce Setting	12	mSec.			
			13	000D	0	Fall Time Debounce Setting	13	mSec.			
			14	000E	0	Fall Time Debounce Setting	14	mSec.			
			15	000F	0	Fall Time Debounce Setting	15	mSec.			
			16	0010	0	Fall Time Debounce Setting	16	mSec.			
			17	0011	0	Fall Time Debounce Setting	17	mSec.			
18	0012	0	Fall Time Debounce Setting	18	mSec.						
19	0013	0	Fall Time Debounce Setting	19	mSec.						
20	0014	0	Fall Time Debounce Setting	20	mSec.						
21	0015	0	Fall Time Debounce Setting	21	mSec.						
22	0016	0	Fall Time Debounce Setting	22	mSec.						
23	0017	0	Fall Time Debounce Setting	23	mSec.						
			24	0018	0	Fall Time Debounce Setting	24	mSec.			