

# Radio Remote Modules

## A-3016

### OVERVIEW



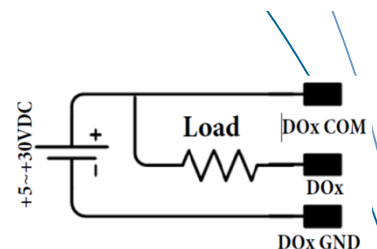
- ▲ Frequency Control: Crystal
- ▲ Low power indicator
- ▲ Operation Range: Up to 100 Meters
- ▲ Supports Modbus RTU / ASCII
- ▲ Free PC software“Yotta Utility”
- ▲ Logic Gate Diagram Function
- ▲ LED Indicators
- ▲ Wide operation temperature : -20 ~ +75 °C
- ▲ Dual watchdog timer

### Technical specifications

Type	A-3016
Transmitter Size	LxWxH: 120x55x25(Unit : mm)
Transmitter Weight	155g
Transmitter Input Power	2 AA size batteries
Receiver Size	LxWxH: 200x77x39(Unit : mm)
Receiver Weight	142g
Receiver Input Power	+10 ~ +30 VDC
Receiver Output LED	YES
Receiver Speed	1200~115200 bps
Receiver Interface	RS-485
Operation Distance	Up to 100 Meters
Receiver Output Type	Sink (40VDC/200mA/Isolation 3000VDC)
Operation temperature	-20 ~ +75 °C
Watchdog Timer	System m & Comm
Logic Gate Diagram Function Type	11
Logic Gate Diagram Function Rule	128

### Pin Assignments

Item	Pin Assignment	Item	Pin Assignment	Item	Pin Assignment
1	DO 0~6 COM	6	DO 4	11	DATA -
2	DO 0	7	DO 5	12	(R) +VS
3	DO 1	8	DO 6	13	(B) GND
4	DO 2	9	DO 0~6 GND		
5	DO 3	10	DATA +		



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### Address Mapping

Supported Modbus Code: 01/02/05/15 (Readable & writable in normal & initial mode)

Address	Description	NOR	INIT*	NOTE
00001~00016	0~15 DI Input Signal (RF)	R	R	(0/1)
00017~00032	0~15 Digital Output Value	R/W	R/W	(0/1)
00033~00048	0~15 Power On Digital Output Value	R	R/W	(0/1)
00049~00064	0~15 Communication Fail Safe Value	R	R/W	(0/1)
00105~00136	0~31 Virtual M Flag	R/W	R/W	(0/1)

Supported Modbus Code: 03/04/06(Readable & writable in normal & initial mode)

Address	Description	NOR	INIT*	NOTE
40012	Power On Digital Output Value	R	R/W	0~65535
40013	Communication Fail Safe Value	R	R/W	0~65535
40065	Communication Fail Safe Time Setting Value( 0.0~6553.5 sec)	R	R/W	0~65535
40070~40085	Count 0~15 Setting Value	R	R/W	0~65535
40100~40115	Timer 0~15 Count Setting Value	R	R/W	0~65535
40120~40135	Count 0~15 Current Value	R	R	0~65535
40140~40155	Timer 0~15 Count Current Value	R	R	0~65535
40211	Module Name 1	R	R	
40212	Module Name 2	R	R	
40213	Soft Version 1	R	R	
40214	Soft Version 2	R	R	
40215	Communication Safety Enabled	R	R	
40216	Communication Safety Flag	R	R	
40300	Module's ID in normal mode	R	R/W	1~255
40301	Protocol in normal mode	R	R/W	0 : RTU 1 : ASCII
40302	Baud rate in normal mode	R	R/W	
40303	Parity option in normal mode	R	R/W	0 : None 1 : Odd 2 : Even
40304	Stop bits in normal mode	R	R/W	0 : 1 bit 1 : 2 bit

# Appendix



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