

## Features

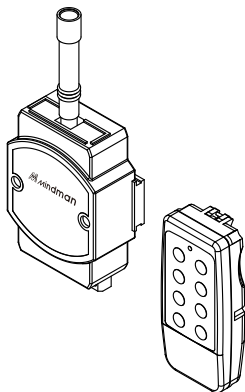
- Frequency control: Crystal
- Low power indicator.
- Operation range: up to 100 meters
- Supports Modbus RTU / ASCII
- Free PC software Mindman Utility.
- Logic gate diagram function.
- LED indicators.
- Dual watchdog timer.

## Order example

MA – 3016 U

MODEL

Blank: VHF  
U: UHF



## Specification

Model	MA-3016 / MA-3016U
Receiver output type	Sink (40VDC / 200mA / Isolation 3000VDC)
Receiver interface	RS-485
Receiver input power	+10 ~ +30 VDC
Receiver speed	1200~115200 bps
Receiver output LED	YES
Transmitter input power	2 AA size batteries
Operation temperature	-20~+75°C (no freezing)
Operation distance	Up to 100 Meters
Watchdog timer	System m & Comm
Logic gate diagram function type	11
Logic gate diagram function rule	128
Size (L×W×H)	200×77×40 mm (Receiver), 120×55×25 mm (Transmitter)
Weight	142g (Receiver), 155g (Transmitter)

## 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