

# Tyro Musca/Aquarius 2F & 4F wireless remote control

Manual 868 MHz

## Musca transmitter and Aquarius receiver

Number of functions: 2 or 4, ON/OFF, emergency stop.

### Button functions

Activate the Musca transmitter: press and hold the "ON" button for half a second.

Deactivate the Musca transmitter: press and hold the "OFF" button for half a second.

The Emergency stop is always active, so in a panic situation there will be no loss of time!

On a standard remote button 1 and 2 cannot be simultaneously activated. This is the same for button 3 and 4.

### Mounting

To optimize the range of the Musca transmitter, it is recommended to place the antenna of the Aquarius receiver as high as possible and free of any metal objects. After connecting and mounting it is recommended to test the device before connecting the main powersource. In case of malfunction check the fuse in the receiver.

Cable scheme is as follows:

Description	Wirenumber
Button 1	5
Button 2	4
Button 3	2
Button 4	3
EM-stop	6
ON-button	-
OFF-button	-
Power 8-38Vdc	1
Programmingwire	7
Ground	Green/yellow



**Please note: All systems are already programmed by the manufacturer.**

### Programming a new or extra Musca transmitter into the Aquarius receiver.

If you wish to program an new or extra Musca transmitter into the Aquarius receiver, please follow the steps below:

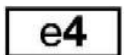
Step	Description
1.	Make sure the Aquarius receiver has been connected properly and that it is powered
2.	Connect wire nr. 7 with the powersource (V+) <b>for a maximum of 3 sec.</b> ( <u>If you connect wire nr. 7 longer than 8 sec., all Musca transmitters will be deleted from the system.</u> )
3.	The status LED on the Aquarius receiver will light up
4.	Press the emergency button on the Musca transmitter
5.	The status LED on the Aquarius receiver will turn off
6.	The Musca transmitter is now programmed in the Aquarius receiver
7.	If you wish to program an additional Musca transmitter, follow these steps again for every additional transmitter
8.	After programming, reconnect wire nr. 7 to ground
9.	After mounting, wires that are not used can be cut off and must be isolated
10.	To delete all programmed Musca transmitters connect wire no. 7 for at least 10 seconds to powersource (V+). To reprogram your Musca transmitters into the Aquarius receiver, follow the steps 1 to 10 again

All deliveries will be will be subject to our general sales conditions, available on demand or through our website. Our products are certified for many applications. When mounting, always take into account the applicable machine directives.



Tyro Remotes  
Bedrijvenpark Twente 1B  
7602 KA Almelo  
The Netherlands

Tel: +31-(0)546-588790  
Fax: +31-(0)546-579490  
E-mail: [info@tyroremotes.eu](mailto:info@tyroremotes.eu)  
Website: [www.tyroremotes.eu](http://www.tyroremotes.eu)



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Technical specifications:

## Aquarius receiver:

Operating voltage	8-38 Vdc
Fuse	10 A
Powersurge	15 mA
Max. output Amps	4A (at 24 Vdc) each output
Cable length	2.5 meters
IP classification	IP-68 (waterproof)

## Musca transmitter:

Range	Up to 350 meters
Frequency	868 MHz
Antenna	Integrated
Power surge standby	2 $\mu$ A.
Power surge while transmitting	5 mA (maximal)
Battery replace indicator	<u>If LED flashes slowly during transmitting, change battery</u>
Battery type	1 piece, 9V 600 mAh
Battery life whilst continuously transmitting	100 hours
Normal battery life	2 years
Impact proof	Max. 2 metres
IP classification	IP-65 (Splashing water proof)

### Battery replacement in Musca transmitter:

Carefully open the enclosure to prevent damage to the flat cable. To disconnect the flat cable lift the upper part of the connector, the flat cable will be released. Replace battery. After finishing you have to reconnect the flat cable and push down the upper part of the connector. Make sure there are no kinks in the flat cable, when screwing enclosures back on.

### Standard options:

Musca transmitter and Aquarius receiver.  
9V battery.  
Receiver antenna 868 MHz.  
Emergency stop.  
ON/OFF button.  
2 or 4 function buttons.  
Beltclip.



### Extra options:

Coax extension cable and torque piece, available lengths: 1 meter, 2 meters or 5 meters.  
The receiver can be programmed with a maximum of 54 transmitters.  
Buttonlock function (bi-stable output contact), PWM (dimmer), timer (output active during certain time). Or a combination of these options.

### Dimensions:

Musca transmitter 95x60x30.  
Aquarius receiver 95x150x30.

### Weight:

Musca transmitter: 114 gram.  
Aquarius receiver: 508 gram.



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