









AWARD FOR DESIGN EXCELLENCE

2017



FELL Marine Inc

Designs, prices and features subject to change.















CONTENTS

Introduction 02
Technology 03
MOB+ [™] Wireless Kill Switch 04
Spec Sheets 05
Auto MOB
Easy
WiMEA Protocol
Installation
Product
Quick guide
FAQ
FELL Marine Partner Portal 18
Contact and Support 19





WIRELESS KILL SWITCH



MOB+[™] Wireless Kill Switch offers the freedom you need to have a great experience while you are boating. Just relax and do what you need to get your game on, while MOB+ Wireless Kill Switch cares for your safety should a MOB (Man-Over-Board) event occur. Be safe to be free!

LIBERTY

Boating is about freedom and doing exactly what you want to do. Boating is action, it's movement, it's leisure. Being tied down to your dashboard is the exact opposite of all those things; you have limited capabilities to engage in the boating experience, while remaining safe. MOB+ Wireless Kill Switch enhances your ability to move about the boat, whilst still being safe if you were to fall overboard.

ACTION

Get your game on, bring out your rod and enjoy those fantastic fishing moments. MOB+ Wireless Kill Switch is your personal companion looking out for you every second of your boating trip. Don't think –just reel in!







MOB+[™] Wireless Kill Switch works under on your terms. The system consists of an easy to install xHUB™ mounted in your boat and a wearable xFOB™. The two communicate wirelessly with each other. Wear the xFOB as it suits you. MOB+ Wireless Kill Switch offer a range of wearable options for you to be most comfortable using the system. The xFOB has more than 300 hours of battery life, and is powered by an easy to change standard coin cell battery. The xHUB connects to your boats power system (12V-24V) and to your engine stopping system. Intuitive and easy to use via a one-click user interface. Just click the xFOB once when you enter your boat and you are ready to go!





Personalize your system with a variety of colors and attachment options to choose from



xTAG[™] Clip-On

xTAG[™] Lanyard

Available in 1 color 🦪

xFOB™





Measurements and performance

Weight	10g / 0.35oz.
Housing material	ASA / TPU / POM
Temperature range	From -15°C / 5°F to 55°C / 131°F
Voltage Source	Coin Cell Battery - 3V nominal
Power consumption	0.3 μA in sleep (0.00033 W) 30 mA in active mode (0.098W)
Battery life	300 hours continous usage

Wireless performance

Frequency area	EU: 868 MHz	US: 915 MHz
RF signal (in)	10 dBm max.	
RF signal (out)	10 dBm max.	
4D Antenna diversity		

Battery xFOB

Battery type	CR2032
Battery voltage	3V lithium battery

Certifications and compliance

Radio - xFOB	EU: R&TTE, EN 300 328, Maritime/CE	US: FCC Part 15C
EMC - xFOB	EU: EN 301 489-01 (V1.9.2), Class A	US: CISPR 16-1
Flammability - xFOB	IEC 60950 1&22, CE-UL94	
Immersion xF0B	IEC 60945, IP68, Maritime/CE - 3m / 10ft. water resistant	
RoHS (2002/95/EC) compliant materials		
ABYC A-33 compliant	Ø	



Measurements and performance

Weight	164g / 5.8oz.
Housing material	ASA / TPU / PBT / POM – RoHS
Temperature range	From -15°C / 5°F to 55°C / 131°F
Voltage Source	10-32Vdc
Energy consumption Active mode	2.5W max. at 13.8Vdc, Standby: <30mA, <0.4W max. at 13.8V
Fuse	1A-3A
Alarm decibel level	>85db
Kill Switch max electricity	8A continuously, 10A puls

Wireless performance

Frequency area	EU: 868 MHz	US: 915 MHz
RF signal (in)	10 dBm max.	
RF signal (out)	10 dBm max.	
4D Antenna diversity	•	

Certifications and compliance

ABYC A-33 compliant	⊘	
RoHS (2002/95/EC) compliant materiales		
Immersion xHUB	IEC 60945, IP67, Maritime/CE - 1m / 3.3ft. water resistant	
Flammability - xHUB	IEC 60950 1&22, CE-UL94	
EMC - xHUB	EU: EN 301 489-01 (V1.9.2), Class A	US: CISPR 16-1
Radio - xHUB	EU: R&TTE, EN 300 328, Maritime/CE	US: FCC Part 15C

xHUB™

xBAND™









Measurements and performance

Weight	10g / 0.35oz.
Housing material	Silicone
Temperature range	From -15°C / 5°F to 55°C / 131°F
Metal Lock	Stainless steel, zinc alloy

Certifications and compliance

Flammability - xBAND	IEC 60950 1&22, CE-UL94
RoHS (2002/95/EC) compliant materiales	•

Measurements and performance

Weight (total)	30g / 1.05oz.
Tag Housing material	Silicone
Clip-On material	Polycarbonate (PC)
Temperature range	From -15°C / 5°F to 55°C / 131°F
Floating Lanyard	Nylon, Foam
Total lanyard length	800 mm / 31.5in
Floating Lanyard diameter	12 mm / 0.5in

Certifications and compliance

Flammability - xTAG	IEC 60950 1&22, CE-UL94
RoHS (2002/95/EC) compliant materiales	•





When its only you and your boat, it's good to know that you have someone looking out for you. Experience unlimited movement – no hassle, no worries.



enter s

Wireless STOP

dStart™

AutoMOB™



6 - 5 - 4 - 3 - 2 - 1 RESTART

MOB MODE

MOB Mode (Man Overboard Mode) is the safety mode of the system. MOB+[™] will automatically activate shut down of the engine when the xFOB[™] is submersed in 4 inches (10 cm) of water or travels out of range from the xHUB[™]. After 6 seconds, the system automatically activates Override Mode. In Override Mode any passenger or crew onboard can restart he engine without the need to interact with the MOB+ system. This allows for a quick recovery of the missing person in the water and enhances safety.

AUTO MOB



dStart[™]

dStart^{\mathbb{M}} is the direct restart feature in the MOB+ $^{\mathbb{M}}$ system. After 6 seconds MOB+ lets any remaining passengers in the boat restart the engine to pick you up in the water should a MOB event occur. When you get back on board you can reconnect by one click on the xFOB^{\mathbb{M}}.



DIRECT RESTART



IN THE ZONE

As long as you stay within wireless range you are free to drive your boat and move about as you feel like. Just relax as MOB+ cares for you if a MOB event should occur.

IN THE WATER

Should you fall overboard the MOB+ will stop the engine because the wireless connection is lost when submerged in over 4 inches of water, even if you are still within 50 feet of your boat.

OUT OF RANGE

If you get out of the wireless range of MOB+, whether by falling overboard in the water or walking away from your boat on the docks, the engine will stop.









EASY



ONE-CLICK CONNECT

It's obvious, there's no comparison with traditional corded lanyards. The MOB+ is safer and easier to use. Just wear the xFOB™ as you want, and click once when entering your boat for the next boating trip to connect. That's it!

UNIQUE ID

The WiMEA® Protocol is highly advanced. Through our unique ID technology, your xFOB only syncs to the xHUB™ installed in your boat. The first time you use the system, just pair the two units by pressing down on the xHUB for 3 seconds, and repeat on the xFOB, that's it!













INDUSTRIAL GRADE

The WiMEA® Protocol is developed using our proprietary industrial-grade wireless technology to provide a wireless link that is as safe as a corded kill switch connection. The WiMEA® Protocol can be used in a standalone product such as the MOB+^M, and has the potential to be integrated into other OEM systems.











INTELLIGENT TECH

The WiMEA® (Wireless Marine Electronics Algorithm) is a highly advanced marine security protocol. Utilizing a high speed link and Unique ID Technology, it enables the MOB+™ to provide a robust signal while keeping the low latency needed to quickly react in a man over board situation. The MOB+ reacts almost as fast as pulling a kill switch cord. The WiMEA® Protocol operates across several frequency channels and has 4D Antenna coverage to avoid interference and unintented signal blocking, which makes it virtually impossible for any other wireless system to interfere with the operation of a MOB+ system.

Smart Algorithm







A RUNAWAY BOAT IS DANGEROUS WEAR YOUR KILL SWITCH





INSTALLATION



QUICK AND EASY

Installing MOB+ $^{\text{M}}$ Wireless Kill Switch is a breeze . The xHUB $^{\text{M}}$ mounts in the dash and connects to power (12V-24V) and to your engine stopping system - the existing wires to your kill switch or other type of stop circuit. After a quick pairing with the xFOB $^{\text{M}}$ you are good to go. Just click once to connect and drive.

EVERYTHING YOU NEED

The MOB+ Basepack contains everything you need for installation. The included cable connects the xHUB to your boat with a waterproof IP68 connector for a safe and reliable connection. Plug and play connection to your stop circuit using bullet splices on most engine brands.

Visit www.fellmarine.com/support







xTAG™Clip-On





MAXIMUM WEARABILITY



Created for maximum wearability, MOB+™ xFOB™ can be worn on your wrist, in your pocket, clipped to your belt or around your neck in a lanyard – all designed with the mariner in mind. Never miss a tight line!



MOB+[™] BASEPACK

MOB+[™] Basepack is our base option to get started. In the Basepack you get all you need to start using MOB+ Wireless Kill Switch. The Basepack consists of the xHUB[™], xFOB[™], Cables, Antenna, Cable Splices, User Manual and a CR2032 Battery for the xFOB.

MOB+[™] xFOB[™]

Everyone using the boat can have their personal wireless kill switch. The xHUB remembers up to 20 xFOBs, just pair more units and anyone using the boat can enjoy the freedom onboard. Only one connection is allowed at one time, preferably the driver. Combine the xFOB with either the xTAG^m or a xBAND^m in your choice of colors.

MOB+[™] xTAG[™]

With the xTAG you can choose to wear the xFOB around your neck, clip it on your life jacket or belt. The clip-on is standard measure to fit on all garments and life jackets equipped with lash tab. Tip: The xTAG can also be placed on pets or small children. If the xHUB is not connected to an engine it will act as an alarm in a MOB-event.







PRODUCT INFORMATION



MOB+[™] xBAND[™]

Choose your personal color for your xBAND. The xBAND is in some cases available in color and brand from your boat and engine manufacturer. See more at www.fellmarine.com/products



CERTIFICATIONS

We have tested and certified MOB+to meet all the current standards – for your safety. ABYC A33 & E-11 Compliant (US Emergency engine/propulsion kill devices standard)

Wireless	US: FCC Part 15C	EU: R&TTE - ETSI EN 300 220
ЕМС	US: CISPR16	EU: EN 301 489
IP Grade	xFOB™: IP68, xHUB™: IP67 EN60945	
Materials	RoHS (2002/95/EC)	
Flammability	IEC 60950 1&22	



QUICK GUIDE



OVERRIDE MODE

In the event that you forget your xFOB[™] or if it's out of battery - don't worry. You can easily override MOB+[™] by holding the button on the xHUB[™] for 13 seconds. The xHUB will give a sound and light signal to indicate Override Mode is activated so you can start boating.

FAQS

- I already have an existing kill switch. Can I install MOB+™?
 -Yes. MOB+ is installed using wires from your existing kill switch. Please see installation guide for instructions
- I have a boat made from metal. Can I install MOB+?
 -Actual signal reduction, if any, will vary from boat to boat. Should the signal be noticeably worse, we recommend using an external antenna to put on the top side of the helm, supplied from FELL Marine.
- Can passengers start the boat if I were to fall over board?
 -Yes, this is one of the main features of MOB+. 6 seconds after a MOB Event the system lets passenger restart the engine to pick up the missing person in the water.

Follow us on facebook!



SEE OUR ONLINE USER MANUAL AT <u>www.fellmarine.com</u>



We have made it super easy for you to find what you are looking for by creating an online interactive user manual. Just tune in on www.fellmarine.com for the latest news and information available about our products.

9 0 6 9







BECOME PARTNER:

We continuously expand our network of partners to be able to serve our customers in the best way possible. Our retailers are skilled and genuinely passionate boat dealers, retailers or distributors. As a FELL Marine Partner you engage in selling a unique product, first of its kind to deliver absolutely what it promises on the subjects of user friendliness, wireless performance and safety.

Contact us:

Phone US:	+1 855-683-FELL
Phone EU:	+47 32 82 82 80
Email:	partner@fellmarine.com

Find out more at **PARTNER.FELLMARINE.COM**

- Order products
- Order history
- Automatically shipping and fulfillment integration
- Access marketing material
- Support and return filings
- Product information
- EDI compatible
- UPC / GTIN coding



CONTACT



REGENCY

SUPPORT

We are here to help. Please feel free to contact us with any inquiry.

Phone EU: Phone US: Business hours: Email: Web support: Social Media: Web: +47 32 82 82 80 +1 855-683-FELL Monday-Friday 08:00am – 04:00 pm support@fellmarine.com https://www.fellmarine.com/support/ facebook.com/fellmarine https://www.fellmarine.com

FIND RETAILER

Visit **www.fellmarine.com/retailer** to find your local dealer



