

# Waterproof Marker Tag

The Marker Tag is a battery operated circuit that hides and reveals an HDX RFID tag at timed intervals. These periodic events are recorded by a reader and datalogger to verify continuous operation. Any gaps in the record will indicate a problem.



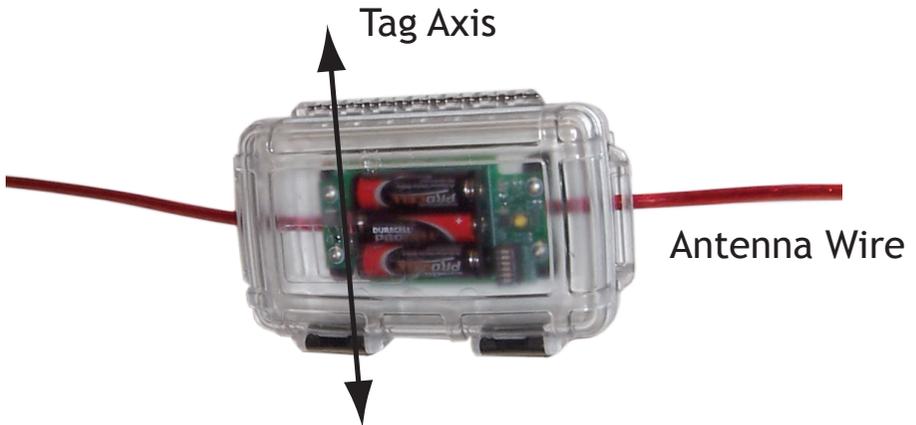
The Marker Tag is mounted within an Otter 2000 enclosure that can be immersed to 100 feet.

# Mounting

The Marker Tag needs to be mounted within the detection field of the antenna. When evaluating placement locations, press and hold the yellow button to continuously reveal the tag.

The tag can be mounted close to the wire or somewhere within the detection zone. It is important to properly orient the tag axis to the antenna loop.

When placing the Marker Tag next to the wire the tag axis should be perpendicular to it.



The tag could also be mounted in the read zone at the minimum required distance. The tag axis should point towards the middle of the loop.

# Setting the Time Interval

The time interval can be adjusted between 1 and 31 minutes. The duration of the tag visibility can be 1/4 or 1 second.



Switch 6 sets the visibility duration  
ON = 1 second  
OFF = 1/4 second

16  
8  
4  
2  
1  
Turn on switches 1  
to 5 to add minutes  
to the interval.

5 minutes is 1+4  
15 minutes is 1+2+4+8

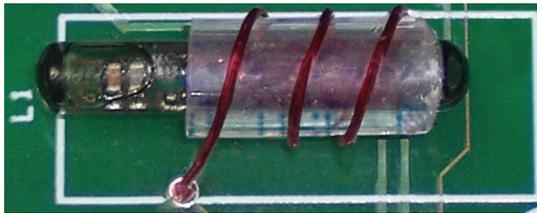
When all switches are off the reader is in a special test mode that reveals the tag every 3 seconds.

Press the yellow Reset button after changing the DIP switch settings to restart the timer.

# How It Works

A coil is wound around the tag to form a Faraday shield which blocks radio signals when the ends are touching. An ultra low power timer circuit opens and closes a switch to hide and reveal the tag. The batteries will last for many months.

After the batteries are exhausted, the tag will remain hidden.



The Marker Tag does not work with FDX tags which requires a different type of shielding.



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