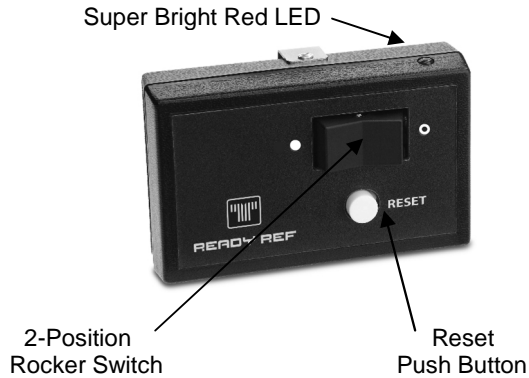


## Model #1130 Ready Ref



- ✓ **Small & Lightweight**  
3.8" Wide x 2.4" High x 1" Deep  
4.7 ounces
- ✓ **9-Volt Battery Included**  
10,000-cycle battery life
- ✓ **Microprocessor Circuit**  
Accurate to within .001 seconds
- ✓ **Secure 2" Belt Loop**



- ✓ **Rain Case Included**



- ✓ **Lifetime Warranty**  
Guaranteed to operate reliably for as long as you own it. Simply return Ready Ref with \$6 for return shipping, and we repair it free.

## To Order

Ready Ref is manufactured, sold, and serviced directly from our factory in Marietta, Ohio. Order online or call toll-free, Monday through Friday, 8:00 a.m. to 5:00 p.m. EDT. We are often available before and after office hours. Call us anytime.

Telephone orders placed using a credit card are shipped within 24 hours via USPS Priority Mail. Mail-in orders with a check or money order are shipped within 24 hours.

**Model 1130 Ready Ref.....\$69.00**

**Shipping & Handling.....\$6.00**

*Ohio residents add 7% sales tax*

Order Online

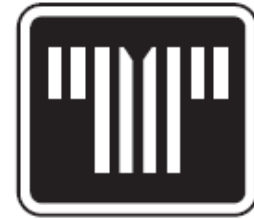
[www.ready-ref.com](http://www.ready-ref.com)

or

**1-800-223-5395**



Grimm Scientific Industries, Inc. TEL: 800-223-5395  
P.O. Box 2143 FAX: 740-374-5745  
Marietta, OH 45750 EMAIL: [grimm@ee.net](mailto:grimm@ee.net)



**READY REF**

**The Officials' Standard  
for On-Field Timing**



**Model 1130  
Michigan Football Timer**

- ✓ Allows you to concentrate on your responsibilities without the distraction of checking a wrist watch
- ✓ Gives teams the fairness of timing intervals permitted by rule and develops a nice, even flow to the game
- ✓ Silent vibrator provides discreet notification to pace the hand signals when play clocks are either not available or turned off.

## Operation

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1. Press the rocker switch to the “○” open circle position. Ready Ref will vibrate for two seconds at 15 seconds then vibrate again for five seconds at 20 seconds.
2. Press the rocker switch to the “●” white dot position. Ready Ref will vibrate for two seconds at 45-seconds for the coach’s warning then vibrate again for 5 seconds at 60 seconds to signal the conclusion of the time out.
3. The “Reset” push button resets the timer. Place finger on this button when teams line up and press it at the snap. Ready Ref will then only signal when needed.

## Maintenance

- Start each season with a new battery.
- Protect from direct heavy rain.
- When wet remove battery cover and battery then allow 24 hours to air dry.

**Important:** Every time you reconnect the battery, press the rocker switch to “○” open circle position and allow Ready Ref to finish one complete timing cycle thru both vibration signals until the LED cycles off. This will activate the microprocessor’s battery saving feature.

## Delay-of-Game

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### Hand Signals

When the end zone play clocks are not available or stop operating during the game the official responsible for timing should use the following hand signals.

### Ten Second Pre-warning Mechanic

Press the rocker switch to “○” for timing the 25-second play clock. At the 15-second vibration raise hand above your head then at the 20-second vibration start a counting motion with the same hand. The vibration signal will last for 5 seconds to help pace the count and alert you of the delay of game when it stops. Press the reset button when the ball is snapped to prepare for ending the down.



## Time-Out

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Press the rocker switch to “●” for timing the 60-second time out periods. When Ready Ref signals the 15-second pre-warning vibration the game official responsible for timing should verbally notify the Referee and Wing Officials to give the coach’s warning.

When Ready Ref signals the 60-second vibration the official should verbally notify the Referee who will give three short blasts with the whistle followed by the ready-for-play signal.