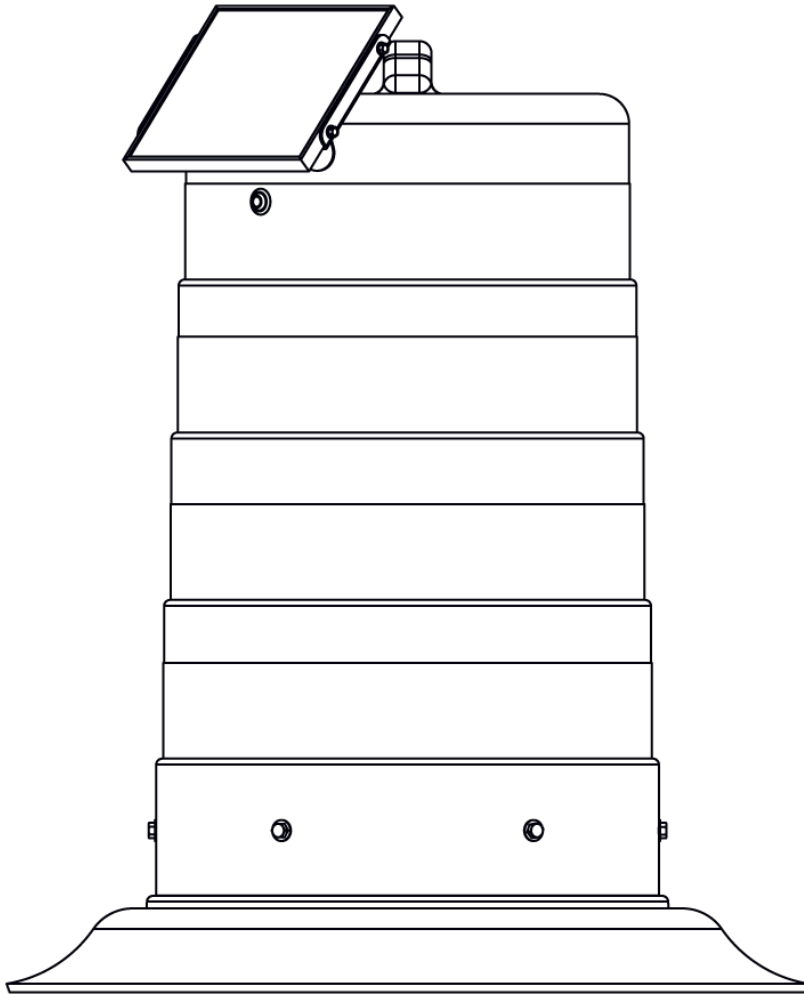


WORK ZONE LOCATION MARKER

MODEL WWZM-B
PRODUCT SPECIFICATIONS | MAY 2026



1. SYSTEM

- 1.1. Description** The Wanco® Work Zone Location Marker is an electronic beacon in the form of a standard channelizer drum. A standard traffic barrel contains built-in electronics and provides its geolocation as part of an intelligent traffic system.
- Deployed in a work zone, the Marker Barrel sends its location, operating status, and other system data to the Wanco Fleet Manager service via cellular modem (when a cellular signal is available).
- The Marker Barrel is portable, nonintrusive, and needs no permanent installation, external wiring, or other infrastructure. Power is provided by a battery, which is charged by an automated solar charging system. With sufficient sunlight, the device can run indefinitely without intervention.
- 1.2. Model** WWZM-B barrel style electronic work zone location marker
- 1.3. Temperature limits** Operating: -4 to 158°F (-20 to 70°C)
Storage: -40 to 176°F (-40 to 80°C)

2. FEATURES

- 2.1. Setup**
- Portable system is easy to transport and deploy
 - Transmitter on/off switch located on side of barrel
- 2.2. Operation**
- LED provides visual indication that the system is operational
 - Sends location, operating status, and other system data to Wanco Fleet Manager
- 2.3. Power system**
- Energy-efficient operation results in long run times
 - Battery powered with solar charging
 - Solar panel charges battery automatically without intervention
 - Charging system shuts down when battery is fully charged, preventing damage
 - Main power disconnect prevents battery drain when not in use
- 2.4. Maintenance**
- Standard channelizer drum/traffic barrel and weighted base
 - Maintenance-free battery
 - Most components are easily replaceable

3. TRAFFIC BARREL

- 3.1. Barrel**
- 3.1.1. Description** Channelizer drum with reinforced bolt holes (for barricade lights) and oversized grab hole
- 3.1.2. Material** Molded polyethylene with UV inhibitors to resist fading
- 3.1.3. Sheeting** High-intensity prismatic (HIP) reflective sheeting, five 4-inch rings, alternating white and fluorescent orange

- 3.1.4. Size
 - 18" (46 cm) top diameter
 - 23" (58 cm) bottom diameter
 - 41" (104 cm) height

3.2. Base

- 3.2.1. Description
 - Channelizer drum base, slips over drum for added weight
 - Tire ring locking design inhibits movement on road surface; large, textured base increases grip of tire ring
- 3.2.2. Material
 - Rubber
- 3.2.3. Size
 - 33" (84 cm) outside diameter
 - 3" (8 cm) height
- 3.2.4. Weight
 - 22.5 lb (10.2 kg)
- 3.3. Standards
 - MUTCD
 - NCHRP-350

4. CONTROL SYSTEM

- 4.1. Function
 - Controls system, regulates power, sends system data to Wanco Fleet Manager when a cellular signal is available
 - Factory configured, no user setup needed
- 4.2. Transmit switch
 - Weatherproof switch on barrel exterior allows operator to manually toggle transmitter on, indicating the work zone is active, and off, indicating the work zone is inactive
- 4.3. Indicator light
 - LED power indicator is lit while transmitter is active
- 4.4. Control box
 - 4.4.1. Function
 - Contains and protects electronics and battery
 - 4.4.2. Size
 - 11" x 14.9" x 5.11" (28 x 38 x 13 cm), W x H x D
 - 4.4.3. Material
 - Acrylonitrile butadiene styrene (ABS), gray
 - 4.4.4. Location
 - Fastened to bracket inside the barrel, toward the bottom; elevated to prevent contact with the ground
 - Low center of gravity helps keep drum upright
 - 4.4.5. Door
 - Front-panel is a door, hinged on the left, which opens fully
 - Two stainless steel latches hold door closed
 - Door can be locked with user-supplied padlock for added security
 - 4.4.6. Rating
 - Weather-resistant, comparable to IP55

- 4.4.7. Support bracket Steel bracket is coated with oven-baked, durable orange powder-coat finish to ensure durability and corrosion protection. Bracket is run through a five-stage, high-pressure phosphate-wash prior to application of the finish coat.
- 4.5. **Modem** Factory configured, no user setup needed
Automatically sends system data to connected systems via the cloud: GPS location, transmission active/inactive state, system voltage and cellular connection strength
- 4.6. **Wanco Fleet Manager**
 - 4.6.1. Description Web-based portal provides remote online access to view equipment information remotely and wirelessly
 - 4.6.2. Features Set marker location as Start, End, or Generic
View GPS location and track location history on an interactive Google map
View current active/inactive status and status change history with date/time stamps
View signal strength and system health including battery voltage and charge history
 - 4.6.3. System requirements Modern standards-compliant web browser with JavaScript enabled
A platform that supports one of these browsers (smartphone, tablet, or computer)
Internet connection

5. POWER SYSTEM

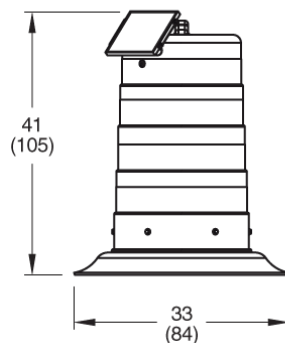
- 5.1. **Description** Electronics powered by a battery, which is charged automatically with an integrated solar-based charging system
- 5.2. **Battery**
 - 5.2.1. Type Maintenance-free SLA AGM
 - 5.2.2. Quantity One
 - 5.2.3. Voltage 12Vdc
 - 5.2.4. Weight Approx. 13 lb (6 kg)
 - 5.2.5. Capacity 22 Ah @ 12Vdc
 - 5.2.6. Low-voltage disconnect (LVD) To protect battery from full discharge, the LVD system automatically shuts down power when battery voltage drops to a preset level, and re-engages power when battery charge returns to optimum
- 5.3. **Solar**
 - 5.3.1. Panel One high-efficiency monocrystalline photovoltaic solar module
 - 5.3.2. Location On top of barrel, fixed at approximately 45-degree angle for optimal year-round charging

- 5.3.3. Power output 10W
- 5.3.4. Current 0.82 A max. system current (IMP)
0.87 A open short-circuit current (ISC)
- 5.3.5. Voltage 12.2 Vdc max. (VMP)
14.9 Vdc open short-circuit voltage (VOC)
- 5.3.6. Voltage regulation Solar power input regulated by control system
- 5.3.7. Security Solar panel bolted to mounting frame
- 5.4. **Main power** Power disconnect switch on side of control box disengages power to the control system for storage, preventing power draw from the battery
- 5.5. **System protection** Electrical components fused and reverse-polarity protected
- 5.6. **System recovery** Recovers from power loss and returns to selected operation mode automatically when power is restored

6. DIMENSIONS & WEIGHT

6.1. Dimensions

*inches
(cm)*



6.2. Weight

Approx. 40 lb (18 kg)