

## Tech-Sheet

## ZMB-301

The simplest timing system for equestrian sports coming soon at 2nd quarter of 2020. Preliminary version.

Photocell System  
External Light Security  
Range IR Transmitter

infra-red, pulsing  
10 kLux / 20°  
Standard version 45m or Extended 70m  
both with functional reserve

Time Precision  
Time Base  
Time Drift

high precision timing system, GPS synchronized  
1/10.000 sec  
< 1 ppm @ -40°C < T < 85°C,  
Ageing +/- 1 ppm max per year

IR Receiver Precision  
Radio Frequency

< 200 µS, repeated, fixed delay 500ms  
ISM Band 863 < 870 MHz (Europe) 28 Channels,  
Mesh network topology

Power  
Range

32mW  
typ. 500m line of sight, nom. 2,5km optimal conditions

Stand-by Memory Function  
Safety Function  
GPS Receiver  
Charge & Sync Socket  
Working Temperature  
Working Time

active for 4 hours after switching module off  
save sync clock  
GPS, Glonass (optional)  
5 pin socket RS485  
-20°C < T < 60°C  
@ 20°C up to 120 hours (Transmitter),  
up to 85 hours (Receiver)

Battery

internal Lithium-Ion Rechargeable Pack 8,4V /  
6700mAh

Battery Loading  
Safety Unit

with special charger @ 10°C < T < 45°C  
over voltage / under voltage / short circuit protection  
/ current limit

Dimension, Weight  
Homologation

176 x 112 x 56mm , 800g  
coming soon at 2nd quarter of 2020





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