

Tech-Sheet

ZMB-302, FEI certified

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





Wiebrock Mess- und Regeltechnik GmbH

Maschstr. 22 * 32052 Herford
Germany
Phone +49 5221 98 29 0
www.wiebrock.de

Dezember 2020
Preliminary version
EN 1.0

All rights reserved
Errors excepted. Subject to alteration without notice.