

# ALGE TIMING



THE SPORTS  
TIMING EXPERTS

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**Teledata TED2**



The TED2 is a modern radio with built in high precision timing device. The TCXO-quartz of the TED2 is permanently synchronized via an integrated GPS receiver and the quartz will be permanent re-calibrated. This results in a yet unknown time accuracy.

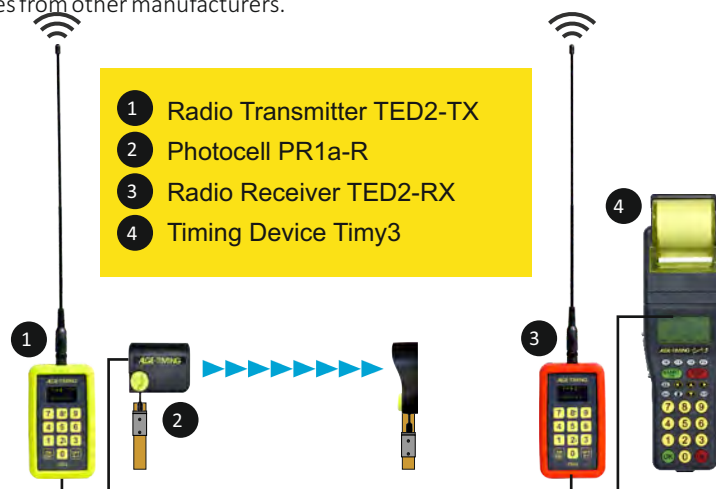
The radio transmits in the 433 MHz band. The radio frequency and radio power can be set by the operator. This TED2 allows distances of up to 4.5 km to be bridged by radio.

An integrated keyboard in the TED2 allows to enter bibs for at the transmitter and receiver. The timing impulse or the "time stamp" can be transmitted wirelessly from the transmitter TED2-TX to the receiver TED2-RX. The "time stamp" contains the time of day, the timing channel and the bib or alternatively a continuous number.

This means that the Timy3 will accept the transmitted "time stamp" with the bib. This makes timing easy and stress-free.

The transmitter TED2-TX has two timing channels. If you use more transmitters in one system you can adjust the timing channels so you can receive up to 10 different timing channels. Our technology enables the TED2-RX to receive all 10 timing channels simultaneously.

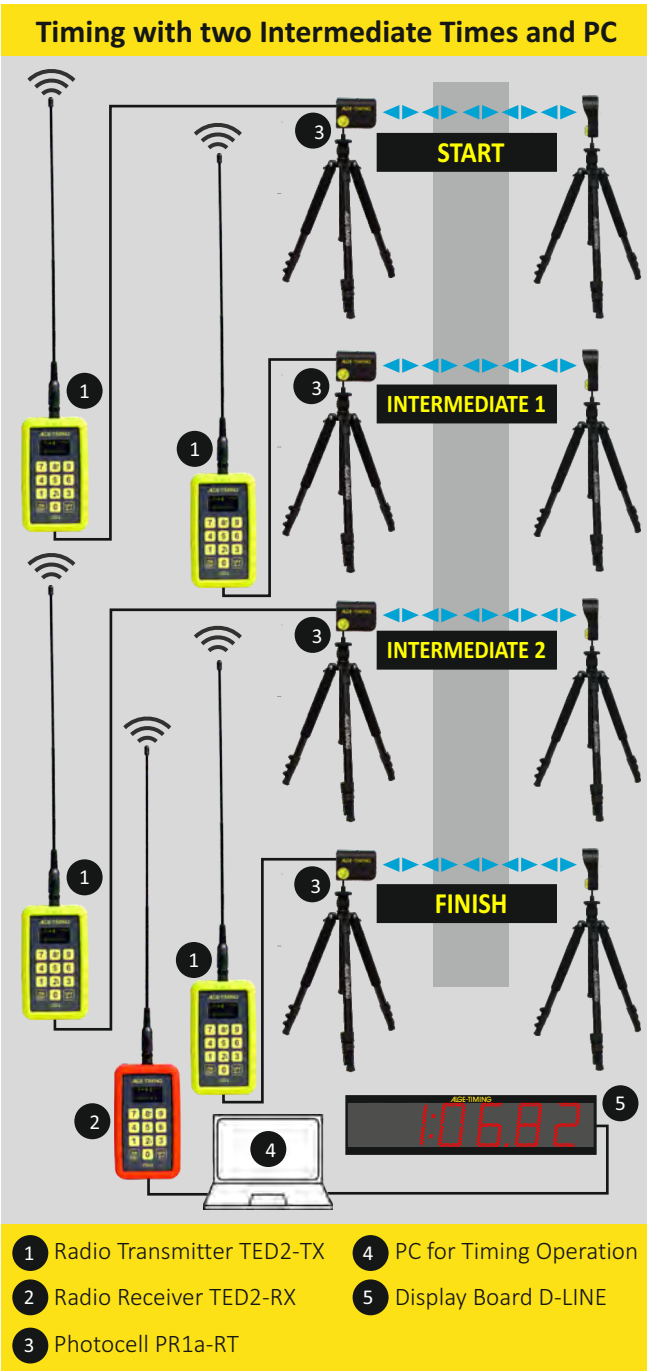
Since the TED2 can also transmit timing impulses, it is compatible with timing devices from ALGE of previous generations and can also be connected to most timing devices from other manufacturers.



### Facts about the TED2

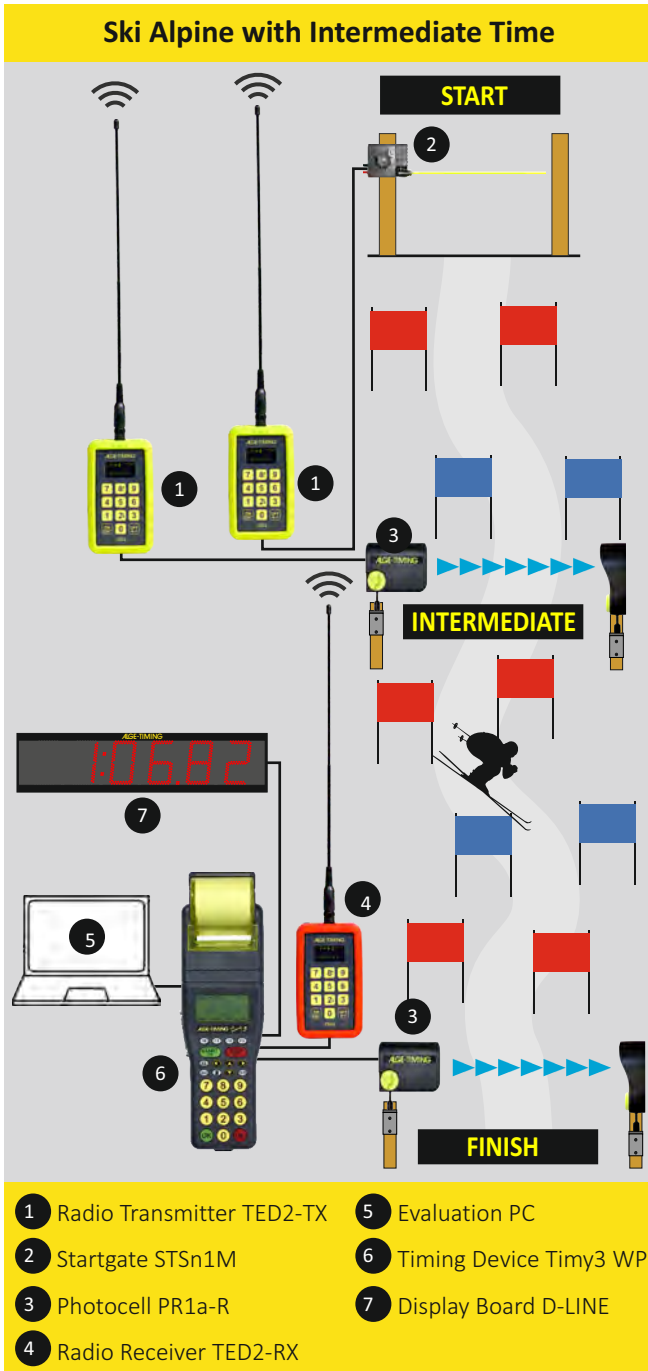
- radio system with integrated accurate timing device
- TED2 stores up to 7000 time stamps
- automatic synchronization via GPS
- transmission of "time stamps" or timing pulses
- display and keyboard for easy operation
- up to 10 different "timing stamps" can be transmitted
- simultaneous reception of up to 10 "time stamps"
- display and keyboard for easy operation
- 139 adjustable radio frequencies
- the frequency of 433 MHz guarantees a long range of up to 4.5 km
- USB-C connector for printer or other devices





All TED2 are automatically synchronized to the time of day when GPS reception is received. If a start, intermediate or finish impulse occurs, the TED2 registers this time of day. This is saved together with the entered ID-number or consecutive number (if no ID-number is entered) and the timing channel used. The TED2-TX will send this „time stamp” to the receiver TED2-RX.

The PC requires software that reads the „time stamps” via the USB interface (e.g. ALGE TimeNet2). Thus, you can manage the time measurement on the PC and make necessary corrections.



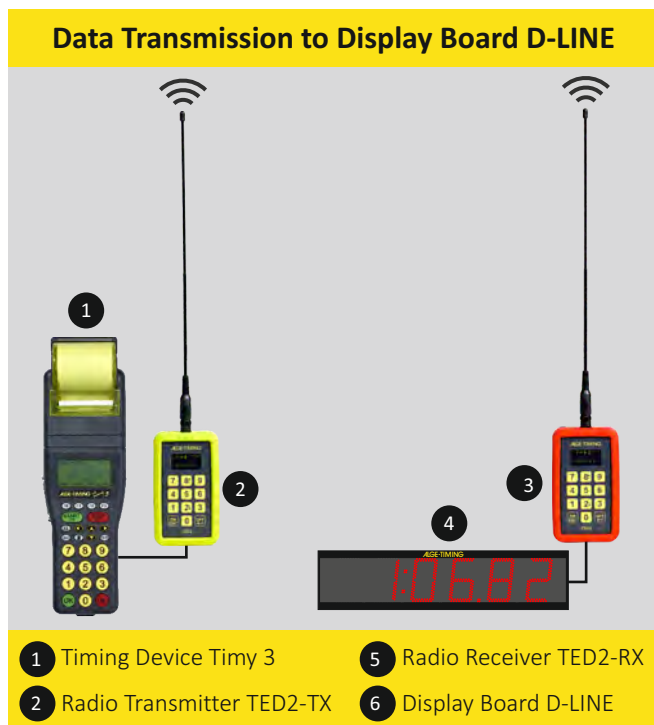
The times from the start and from the intermediate time are sent to the Timy3 via TED2-TX, whereby the user is free to enter the start numbers directly at the TED2-TX or Timy3.

In this example, the finish photocell is connected directly to the Timy3, but could also be operated via radio.



### Data Transmission to Display Boards

It is possible to send data with the TED2 from an ALGE-timing device to a display board.



- 1..... Antenna
- 2..... Display
- 3..... Keyboard
- 4..... USB-C Connector
- 5..... Banana Socket, RS232 out
- 6..... Banana Socket, Timing Channel C1 (out/in)
- 7..... Banana Socket, Timing Channel C0 (out/in)
- 8..... Banana Sockets, Ground

### Technical Data

#### Timing:

*Measuring Range:* 23 hours, 59 minutes 59.9999 seconds  
*Timing Precision:* 1/10,000 s  
*Time-Base:* self-calibrating TCXO quartz  
*Synchronization:* integrated GPS receiver, alternative via timing impulse  
*Timing Channels:* 2 (banana sockets), adjustable C0 to C9  
*Memory:* 7,000 time stamps (permanent stored)  
*Display:* OLED, 37 x 20 mm, 128 x 64 Pixel  
*Keyboard:* Splash-proof membrane keyboard with 12 keys  
*Power Supply:* External: through USB Typ C cable  
 Internal: Li-Ion battery, 3.6 V / 10.4 Wh  
 Charging time: app. 3 h at +25 °C  
 Operation time\*: TED2-TX: 24 h at -20 °C  
 TED2-RX: 12 h at -20 °C

*Operating Temperature:* -20 to +65°C

*Measurements:* 152 x 81 x 40 mm without antenna

*Weight:* TED2-TX: 320 g (without antenna)

TED2-RX: 320 g (without antenna)

*Case:* Splash-proof plastic housing with shock-absorbing rubber coating

#### Radio:

*Radio Frequency:* 433 MHz band  
139 adjustable frequencies

*Radio Performance:* TED2-TX: standard 10 mW  
adjustable 5 – 500 mW

*Radio Range:* up to 4.5 km

*Antenna:* BNC-antenna

\* operation time at -20°C with one impulse per minute



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