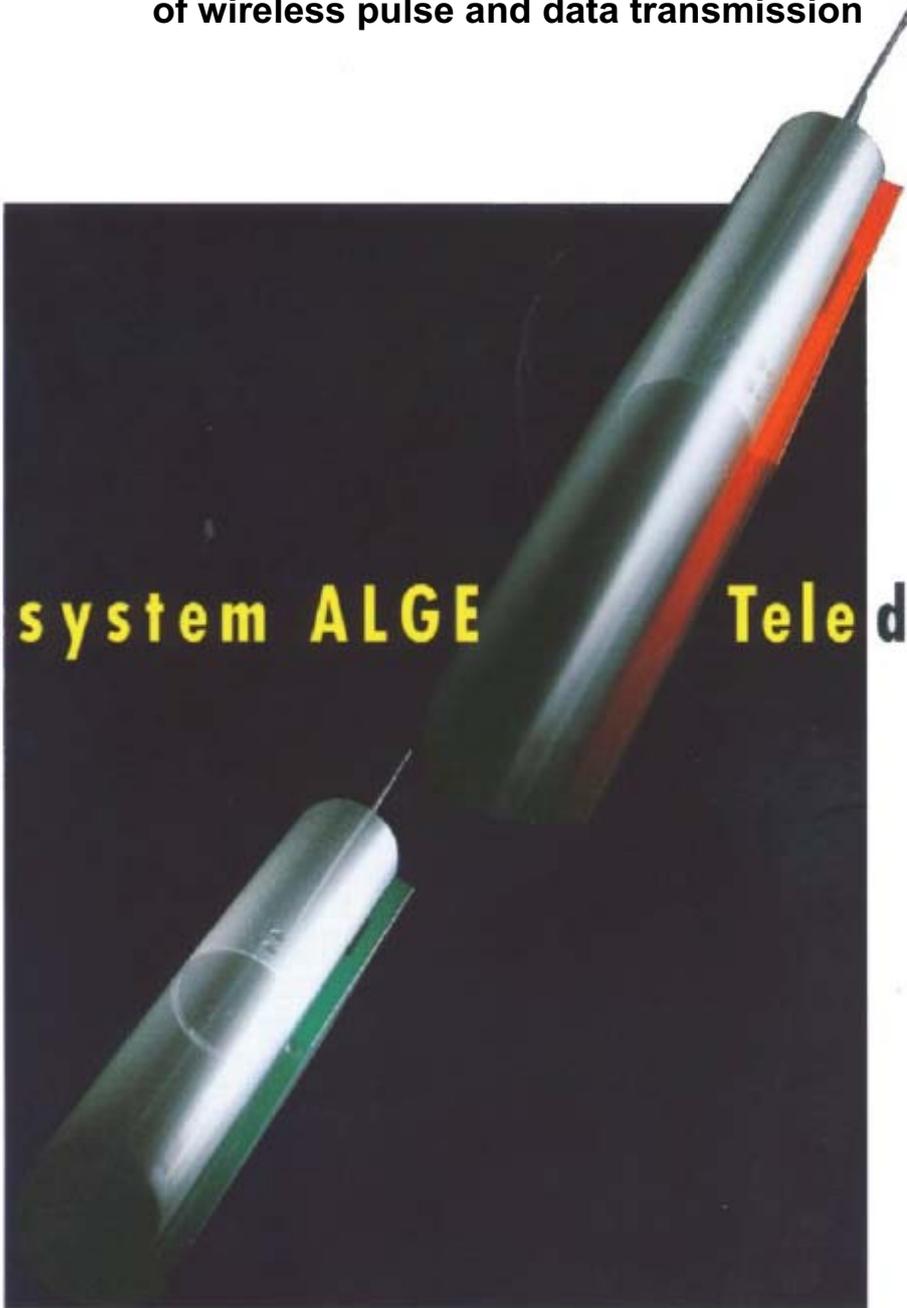# Just take off

and start with the „radio rockets" *ALGE* Teledata TED400
into the highest safety
**of wireless pulse and data transmission**

Radio system ALGE   Teledata TED

ALGE
TIMING

Teledata TED400

Impulse Transmission: Safe as never before

The impulses (start or stop impulses) are transformed by a wireless transmitter TED-TX into a data package, provided with a safety code and transmitted to the receiver TED-RX. After having checked the safety code, the receiver transmits the impulse to a timing device with an accurate, reproducible delay of 0.1 seconds.

Start ▷▷▷▷▷▷▷▷ **Finish**

Photocell   TED-TX   TED-RX   Timing Device
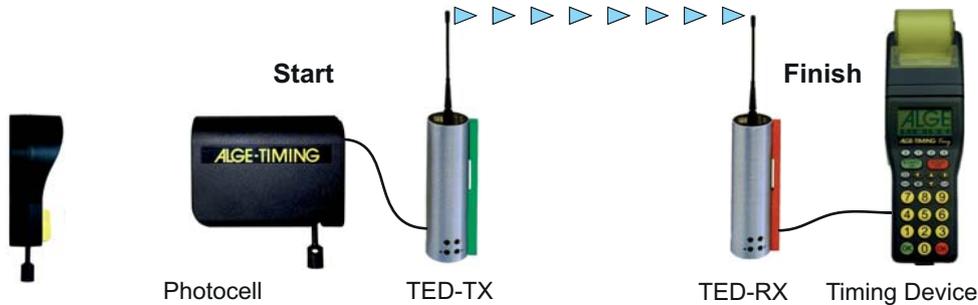
ALGE Impulse Transmitter:
Photocell PR1a or RLS1 series
Photocell RLS3
Startmicrophone SM8
Startclock ASC
Startbeep STB1
Tapeswitch
Touchpad TP
Push Button
Closing Contact

ALGE Impulse Receiver:
TdC 8001
TdC 8000
TdC 4000
TIMER S4
TIMER S3
Timy
COMET
Photofinish OPTI
Startclock ASC

Startgate   TED-TX   TED-RX   Timing Device

Start   **Finish**
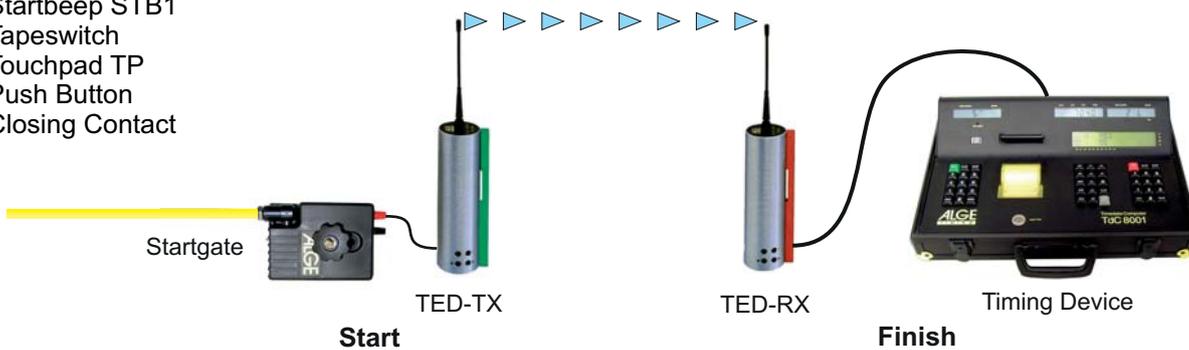
The Standard Version:

Is able to receive two different timing channels. With the accessory RX-C10, up to 10 different channels are available. With special software in the timing device up to 9 different channels are available.

The Safety Package of the Wireless Transmitting System ALGE Teledata TED:

Protection against false impulses:
A special software in the receiver TED-RX eliminates most interferences.

A maximum of transmitting safety:
A new dimension of safety is reached due to location optimization by means of optical and acoustic signalling (LED and loudspeaker).

Large operation range:
TED-TX400:   up to approximate   5 km

Addressing of the system:
Up to 16 addresses can be present. One addressed system is not able to receive impulses from a system with different addressing (for example if several TED systems are used in the same area).

Teledata TED400

Data transmission: with absolute safety

In the data transmission (e.g. of the start time), the data plus the safety code are transmitted from the transmitter TED-TX to the receiver TED-RX. The receiver transmits forwards the data to a data collector (e.g. PC).

This system is absolutely safe because the data can be transmitted as many times as needed in case of a bad radio connection. More-over, the third data record always remains stored in the transmitter TED-TX. The same applies to all start times which can be recalled at any time from the timing device that sends the data.

Data transmission / time measurement:

The start time is transmitted by radio from the timing device to a data collector. Every second a data set is transmitted. To play it safe every data set is transmitted 10 times.
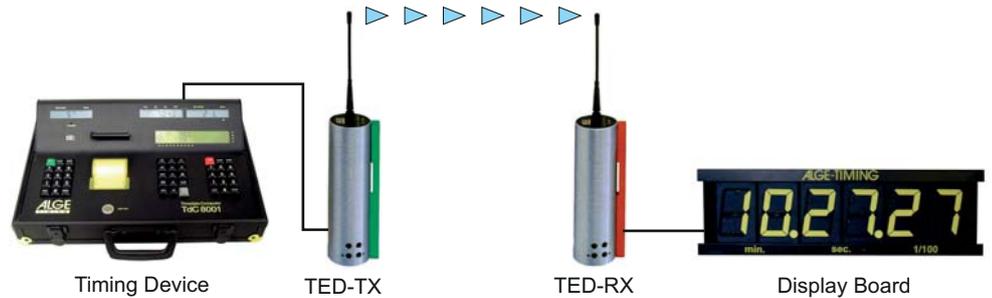
From timing device at start to the finish:
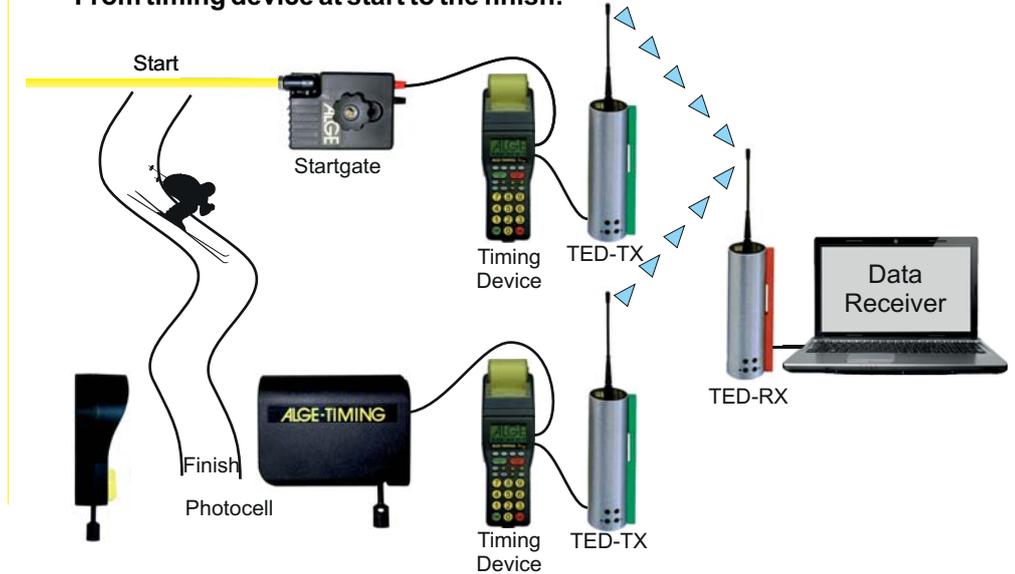
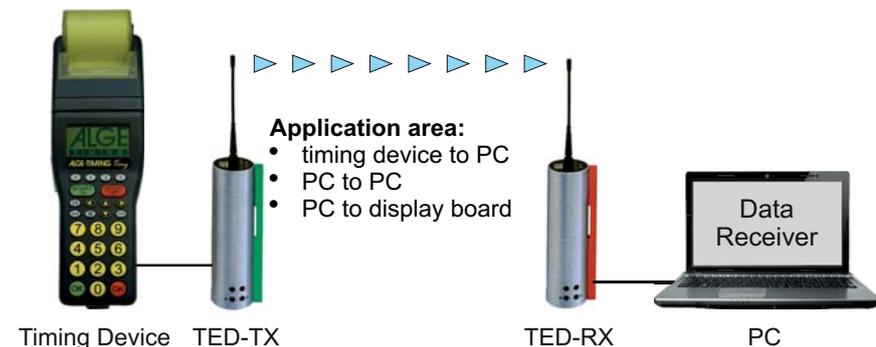## Data transmission / Remote control by timing device:

Every data set is transmitted once. Every 1/10 second a data set can be transmitted:
- from timing device to display board
- from timing device to printer
- from TIMY terminal to display board

Free data transmission:

Any data type can be transmitted. Every 1/10 second a data set is transmitted.

Application area:
- timing device to PC
- PC to PC
- PC to display board

ALGE Teledata TED – technique that makes you feel safe

Technical Data

Output Power:	400 mW (for TED-TX400)
Working Range:	up to 5 km
Frequency:	433.800 MHz (standard frequency)
	alternatively on request: 434.650 MHz, 433.200 MHz, 433.650 MHz
Interfaces:	TED-TX400: RS232 (input)
	TED-RX400: RS232 (output) and RS485 (output)
Power Consumption:	TED-TX400: 270 hours with one impulse per minute
	TED-RX400: 54 hours with one impulse per minute
Antenna:	short, tough, flexible
Connections:	compatible with ALGE products and most others

- Banana socket for data and start impulse
- DIN socket with connection for start and stop impulse, data and external supply

Input Signal:	closing contact, active low, min. 10 ms
Output Signal:	transistor, open collector, active low, 100 ms
LED:	for battery indication (TED-TX and TED-RX),
	and moreover for field intensity indication in the TED-RX
Loudspeaker:	in the TED-RX for field intensity indication and interface evaluation
Power Supply:	*internal:* • 6 x AA – Alkaline batteries or
	• 6 x AA – NiCd rechargeable batteries
	external: • Charger PS12 or from timing device
Operating Temperature:	-20° to +50°C / -4 to 122F
Dimensions:	198 x72 x 72 mm (without antenna)
Fastening:	Velcro fastener for pole fixation, thread for tripod or flange support for photocell
Accessory:	

- Case with foam insert for safe transport
- Rechargeable battery set with six NiCd batteries for TED
- Charger LG6AA for six NiCd rechargeable batteries
- Channel extension RX-C10
- Holder to set up a TED and photocell at one tripod or fastening console

IMPORTANT:

The regulations for radios are very different all over the world. Please check if you can use the radio legally in the country that you want to operate it in. In some countries you may not use it or you have to register it.

Timing System for Ski Racing
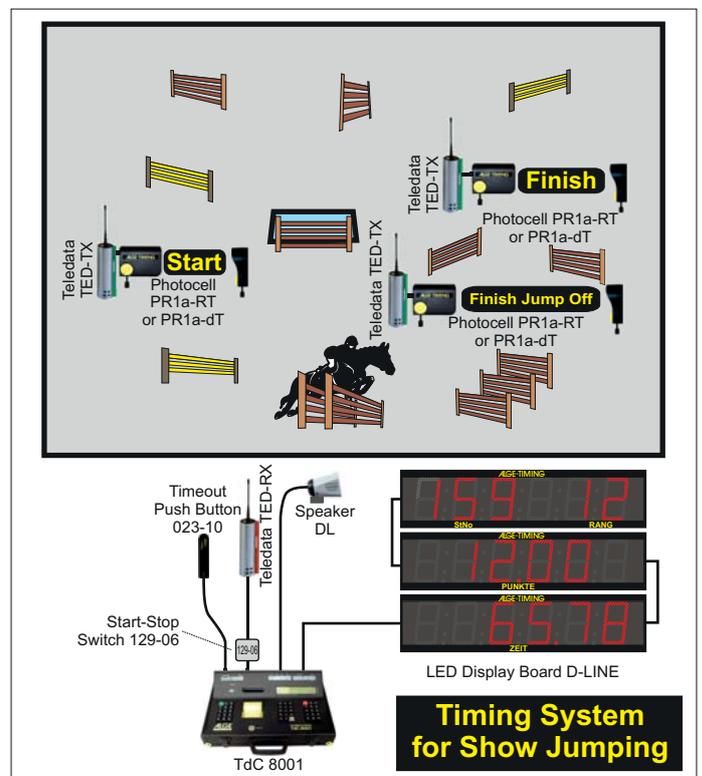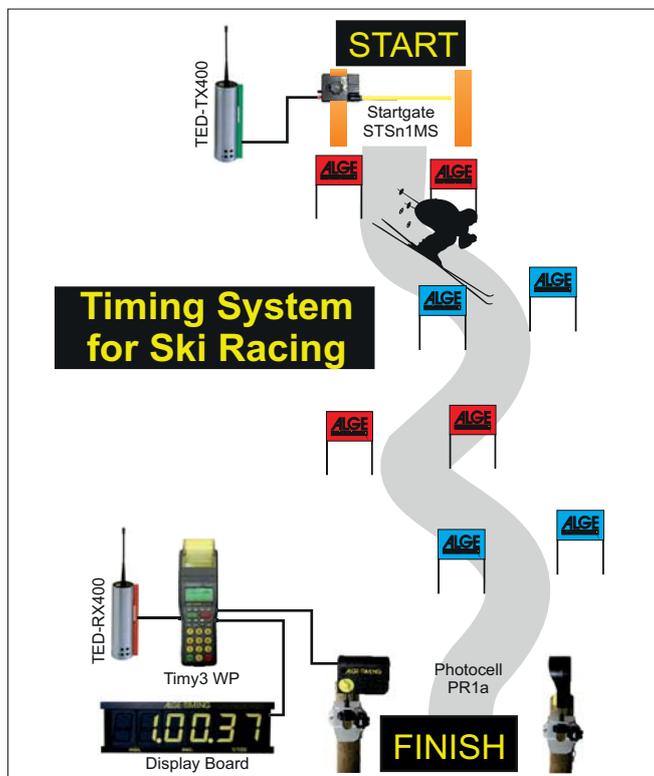
Timing System for Show Jumping

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