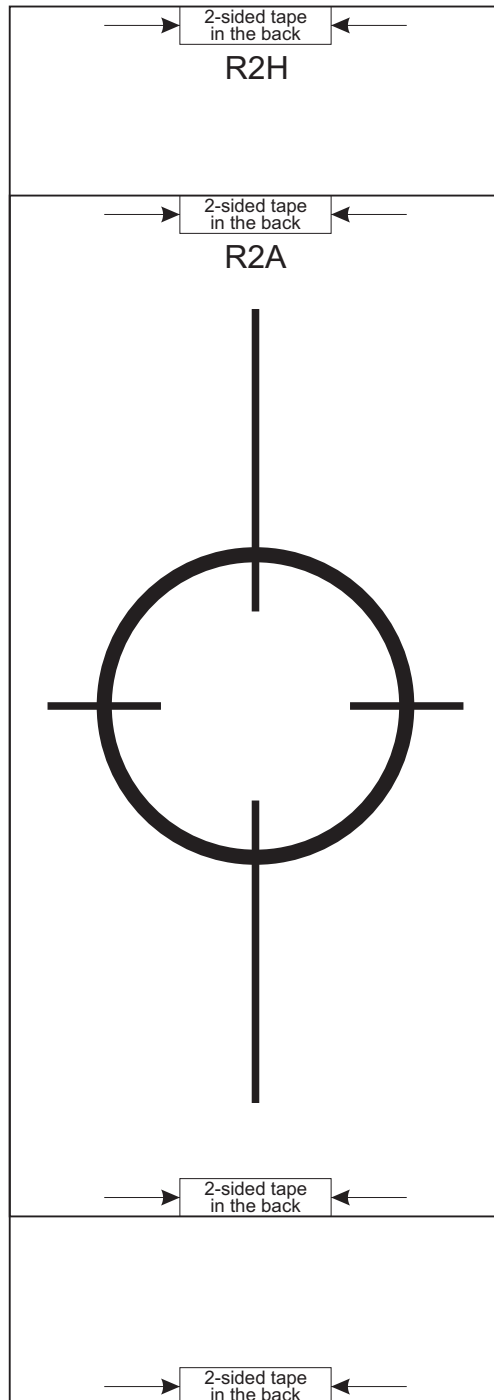


Target for firearms shooting



LMBR

SHOOTING CHRONOGRAPH R2A, R2H

Application

The measurements: air rifles, firearms and archery.
System units: metric and imperial.

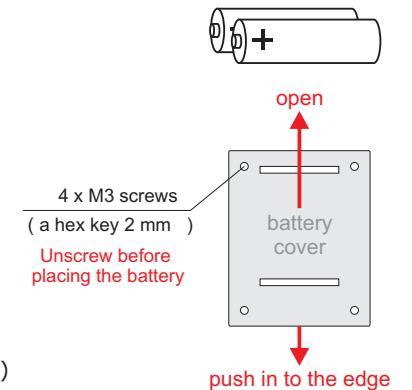
Parameters

- velocity: 12 – 2000 m/s (40 - 6500 f/s)
- measurement error: $\leq 1\%$ @ 1000m/s
- current consumption: 100 mA
- power supply: 2AA (alkaline or rechargeable battery)
- dimensions R2A (h x w x d) 210x105x100 mm
- dimensions R2H (h x w x d) 260x105x100 mm
- weight R2A: 0.995 kg, R2H: 1.06 kg



Functions

- velocity V [m/s], [f/s]
- kinetic energy E [J], E [Ft/Lbs]
- shooting counter
- power factor PF (IPSC)
- average kinetic energy
- average velocity Vavg
- minimum velocity Vmin
- maximum velocity Vmax
- absolute velocity $dV = |V_{max} - V_{min}|$
- standard deviation SV
- rate of fire RoF
- bullet weight 0.01 - 50.00 g (600 gr)
- calibration (settable distance between sensors)
- memory 250 measurements for velocities
- data transmission to computer



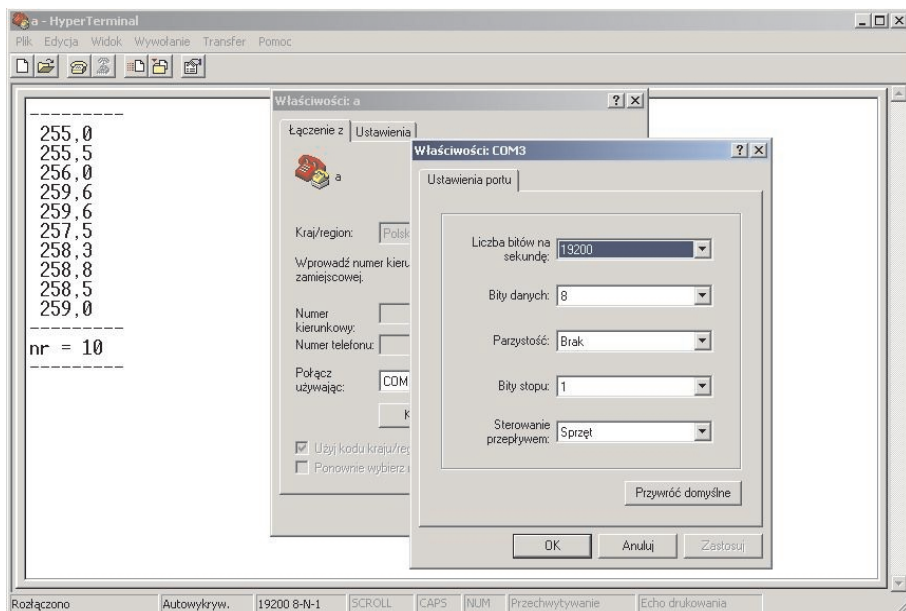
Notes

- ❑ After use, your responsibility is to provide equipment to the designated collection point for the recycling of waste electrical and electronic equipment
- ❑ Do not leave for a long a time discharged batteries in the device
- ❑ When measuring firearms - put the device out of reach gases
- ❑ Protect against water and moisture.

Connection to the computer

To transmission the data use dedicated software or serial terminal: HyperTerminal (Windows XP), TeraTerm. The chronograph connect via the USB-COM cable or RS232.

In the program set the following transmission parameters: the number of bits per second: 19200, data bits: 0, parity: none, stop bits: 1, flow control: hardware.



Firearms

For the firearms shooting change the mode to low (function 23) or use with the paper target mounted in the front on device. The target should be replaced after a few or over a dozen of shots.

The distance the end of the barrel should be higher than 1.2 m.

Do not use for shootguns.

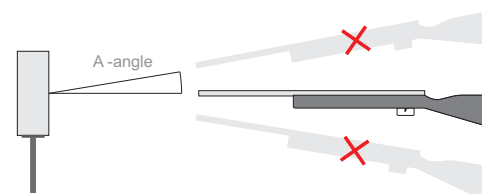
PF power factor (IPSC)

Press the button S2 to display: PF and number of shoots (function 3 of the diagram).

Units metric / imperial

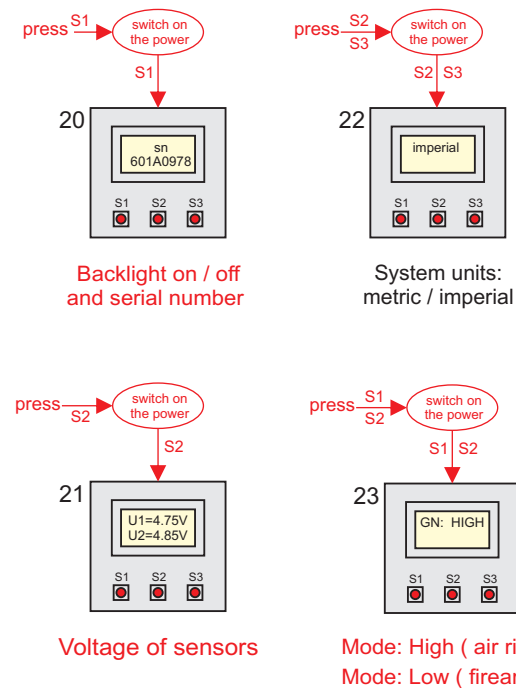
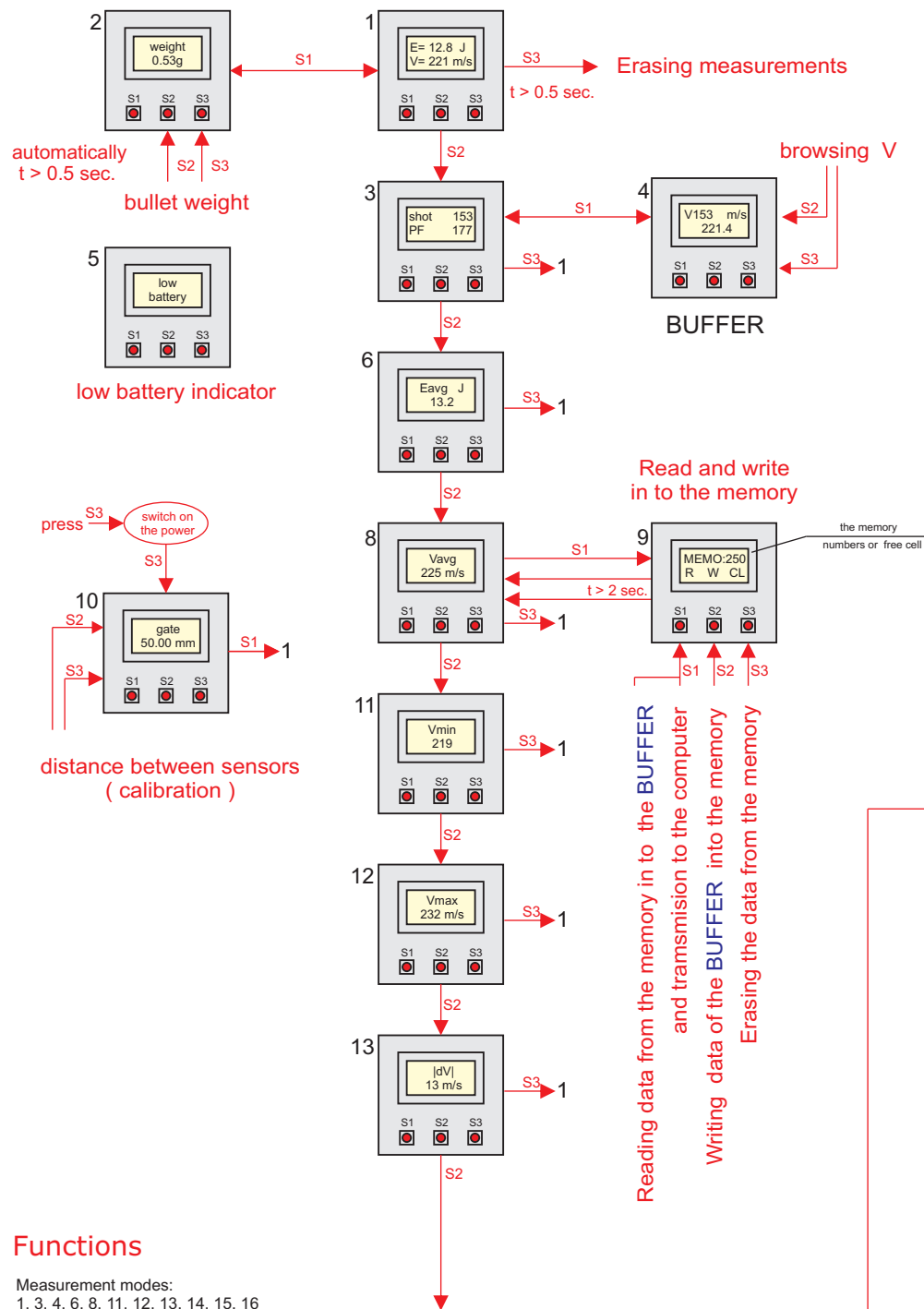
Press the button S2 and S3. next switch on the power supply to change units (function 22 of the diagram).

The weight of ammo should be set independent for metric and imperial units.



$$\text{Error of angle: } dV_{\text{err}} = V * (1 - \cos A)$$





NOTE: Each time, when you run function 23,
the mode will be changed alternately

Functions

Measurement modes:
1, 3, 4, 6, 8, 11, 12, 13, 14, 15, 16