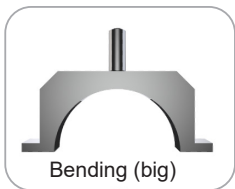




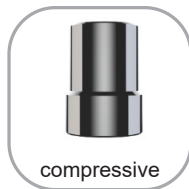
Stretching



Bending (big)



Bending (small)



compressive



Puncture

TP-YYD-1A~1B

## PLANT CULM-STRENGTH METER

### Introduction

During the growth stage of crops, live measurements are taken on their stems, and the population measurement data is statistically processed based on the correlation between the bending resistance and lodging resistance of the stem fiber layer.

### Features

- **Multi-functional probes:** Equipped with needle, hook, and pressure plate probes to measure stem bending resistance, compressive strength, Stem tensile strength and puncture strength.
- **Group Data Display:** Shows average, max, min per group. Supports ≤200 groups (96 entries each).
- **Auto-Peak Detection:** Tracks real-time and peak values with hold function.
- **Data Management:** Save records with Peak, time, location, ID. Search and delete by time or ID.
- **Large Storage:** Holds 10,000+ entries.
- **Alerts:** Audible warnings for overload/low battery.
- **Screen Rotation:** Adjust display orientation for viewing angles.
- **Energy Saving Design:** Adjustable brightness, backlight, auto-shutdown.

### Technical Parameter

Model number	TP-YYD-1A	TP-YYD-1B
Scope of application	Crops with low lodging values such as rice and wheat	Crops with high lodging values such as corn and sorghum
Maximum load	50 N	500 N
Resolution	0.001 N	0.01N
Unit	Pressure (Kpa), Pressure (N)	
Measure stem thickness	0 ~ 40mm	
measurement accuracy	0.1% FS	
Angle measurement range	0 ~ ± 90 °	
Angle resolution	0.1 °	
Angle accuracy	0.1 °	
Power supply	AC100~240V50/60HZ (battery continuous working time: 12 hours)	