Stem Strength Tester Manual

Application:

The stem intensity of sorghum, maize, and tobacco is a major factor to decide the lodging-resistance ability. Since long-term, The lodging of sorghum, maize, tobacco has caused great difficulties in crops mechanized harvesting. In current mechanization harvest level, a lot of crop is wasted. In addition, corn lodging, causing inadequate illumination. make its yield enormous limit. To cultivate high intensity stem of crop seed , This instrument applies to agricultural genetic breeding.

1, function characteristics:

Can be connected computers can save, testing, and print, do all kinds of analysis, the input speed, the area still can show displacement, pressure parameters,

Super memory storage function: test can be stored value; 896

LCD display, backlit function (backlighting for night), and has the screen number is, reverse function,

Automatic shutdown time Settings: automatic shutdown time Settings can be set for 10 minutes to 90 minutes automatic shutdown,

Battery capacity show: Divided into 3 glen, 2 glen,1 glen and low power equipment automatic shutdown.

2, the technical parameters:

Max. load: 500N (N, Kg and ib three units can be automatically converts),

Resolution: 0.01 N,

Accuracy ± 0.5%; :

Power supply: the power charging 220V/AC, Batteries continuous working time: 6 ~ 8 hour,

Stability temperature drift: 0.2 uV/c (0-60 ° c), zero-drift ≤0.1% / 8 hours/FS,

Calibration: full range calibration,

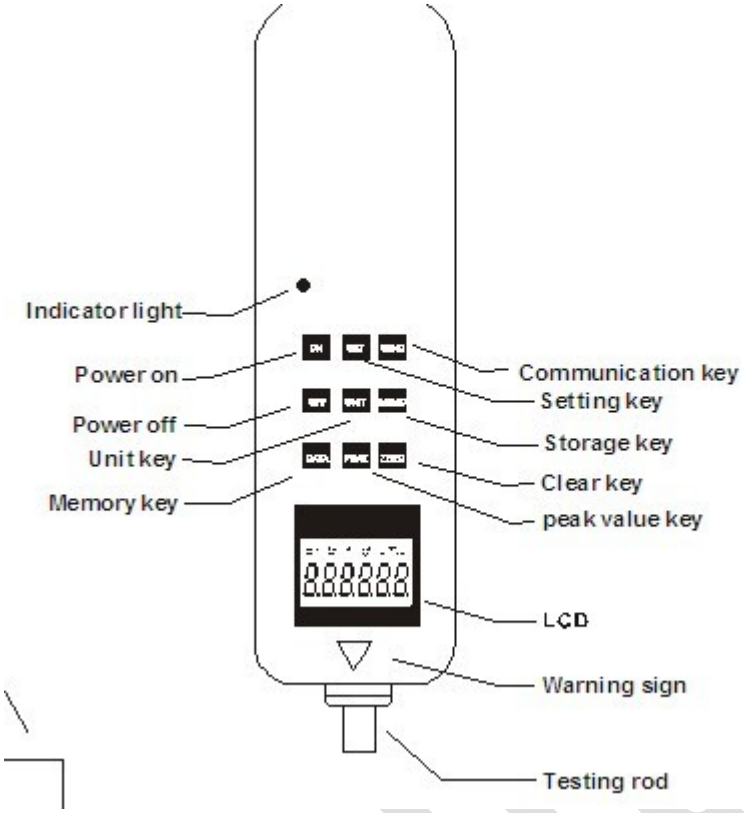
Environmental temperature: 0 ~ + 60 ° c,

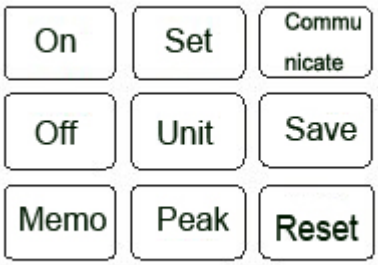
Humidity:≤ 80%；

Allow overload: 150%,

Supply mode: no.5 batteries / 220V nickel cyanogen AC charging 4 ~ 6 hours.

3, Buttons explain (Combined the below two pictures):





1. "On" button:

Press this button, power on, at the same time, will light up, LCD would show models. When the LCD display 0.00, just can operate, (note: sometimes open source, screen may have analog signals shows zero drift, i.e. the numerical display at zero drift, and by "reset" reset).

2. "Off" button:

Press this button, switch off the power. (note: whenever you press this button, the supply of stored memory closed, but does not disappear data),

3. "Memo" button:

Press this button, the test data stored in memory (data) will be display on the screen , "MEM" flash memory, that first 2 seconds after automatically memory data. To exit the memory function interface, just click "reset" button to quit,

4. "Unit" button:

Press this button to execute testing unit of switching, provide N (Newton), Kg (Kg), lb (pounds) of these three units, each time you press the button, the unit will switch to the next unit,

5. "Peak" button:

Press this button to execute manual, automatic PEAK torque, maintain firm when switching between three models, LCD screen shows "PEAK", "said manual PEAK ,"AUTO PEAK" is automatic PEAK, no PEAK"and "AUTO" shows load real duration. Each time you press the button, mode is switched to the next model,

6. "Save" button:

Press this button, the screen test data will be stored up in peak condition (In manual peak condition). Turn out the available store data by "memory" key, Use "reset" button can remove, or use the data link to output the computer for analysis or printed. When the test data is stored in machine, LCD display"MEM".

7. "Reset" button:

Press this button, the screen test value will be zero.

- When using the fixture weight more than 20% of the range, click "reset" button can not reset, must first select the lighter fixture, then click "reset" button can be reset,
- When the machine used is more than 20% of the scale load, press "reset" button can not reset, at this time, you need to remove the load, and then click "reset" button can be reset,
- Press this button for 4 seconds, all the storage test data can be removed (note: in some condition may not clear, you must first shutdown, restart your computer after shutdown, then press the function keys, can eliminate all memory data),

8. "Communicate" button:

Press this button, switching screen number, positive, pour reversal.

4, other functions:

① Print function:

This function can be stored test data through computer and data output to print.

A, first operation the random carry CDS, will get a folder, click the "data derived after open file, click on the" program "setup exe." documents, after exe click on the "next" and "next" and "complete".

B, Connected the instrument with the computer by date link, in the instrument of opening condition, the condition, stay on the LCD display is zero, Double-click the desktop "force gauge communication software 3.0.exe" shortcuts. After pop-ups click "receive", The test stored data output the computer by date link. After receiving data, click the "print", click on printing and printing.

② The synchronous test functions:

This function can display test synchronously test curve, data etc. Function.

A, first operation after the random carry CDS, will get a folder, click the "synchronization tests software" after open files, and then click "installation EXE." file, and click the "next" and "next" has been "finish".

B, specific procedures, please run the company meet problem in the bar page download "digital type push pull synchronization function test plans," refer to this demo demonstrates the operation.

③ Solve overload condition:

When the alarm and show on data cannot be reset, the battery is insufficient, or severe overloading state.

Processing methods:

1, Charging.

2, Long press "set" button for four seconds, can be turned off and on again after shutdown by ", "button on recovery factory Settings (If unable to restore, need to return our factory to change sensor).

4, solve crash state:

When the measurement instrument crash, press the measurement instrument left a labeled as "reset" button.

5, test procedures (can refer to specific procedures can consult with random CDS) :

- When testing, install the measurement instrument on the test stand, the specific steps are as follows:

A, loosen the lock handle , install board to the side of test stand, then use the lock handle lock,

B, loosen regulating handle, slip it and make it contact with the case, can make the two mounting holes above installation board show. Then using mounting screws and elastic cushion to install the two holes above force gauge on the board (installation tighten). At last slip the regulating handle back and lock it.

C, First loosen, the regulating handle under pressure it, slip the handle the regulating handle contact with case, can make the two mounting holes below the Install board show, Then using mounting screws and elastic cushion to install the two holes below force gauge on the board (installation tighten). At last slip the regulating handle back and lock it.

D, Finally, loosen the lock handle return the install board back(the positive of test stand), Then use the lock handle lock it.

- Installed the test head to the screw of measurement instrument.
- Put the two same fixtures in to the two sides of stem measurement instrument, make the center of analyte and the center of test head in a straight line.
- Rotating testboard up-down adjustment, make the fixtures contact with the tested objects ,
- Click "On" key open power, can begin testing.
- The values show on the strength tester is the strength value.