



6000E 架空线测高仪

操作说明



一、 功能键说明

R 阅读键:

依次读取所测第一至第六根导线的读数。

M 测量键:

按一下即完成全部测量功能。

Auto/Off 电源开关:

按一下打开电源, 不按任何键三分钟后, 电源自动关闭。

R 和 M 键:

同时按这两个键, 消除所有数据。

TOP/BTM 开关:

在 TOP 位置, 测离地最高第六

至第一根导线。

在 BTM 位置, 测离地最低第一至第六根导线。

Mea/Cal 开关:

在 Mea 位置, 仪器测架空导线;

在 Cal 位置, 仪器测室内距离或其他大物体的距离, 也可以测标准物体的距离, 作为检验仪器精度的依据。

二、 操作步骤

1. 打开 ON 键。
2. 站在导线下方与导线平行位置。
3. 等显示屏温度值与大气温度一致。
4. 如果测导线高度, 把 Mea/Cal 开关定到 Mea 位置, 如果测离地最低第一

至第六根导线，把 TOP/BTM 开关定到下档，如果测离地最高至第一根导线，把该开关定到上档。

5. 两手水平握稳测高仪（至腰间部位、严禁置放于地面），按下 M 键，约 2—3 秒后松开。

6. 按 R 即显示测量值。如 TOP/BTM 开关在下档，显示屏按顺序显示离地最近的导线与仪器底部的距离，第一根线与第二根线的距离，第三根线与第二根线的距离……如所测的导线数量不够六根，显示值为-----。如 TOP/BTM 开关在上档，显示屏按顺序显示离地最高的导线与仪器底部的距离，第六根导线与第五根导线的距离，第五根导线与第四根导线的距离……（注：该值前面有“—”符号，表示

负值），其余依次类推。

7. 同时按 R 和 M 键，清除所有数据。

三、 电池低电压报警和更换电池

1. 电池电压低于 6V，仪器会自动报警，并在显示屏中间上方有显示。用户应及时更换电池，否则测量值不准，电池漏液会严重损坏仪器。

2. 电池盒在仪器左下方，滑开盖后，取出 9V 旧电池，注意极性，换上新电池，再盖上盖子。

四、 其他注意事项

1. 6000E 系列测高仪显示单位为公制，不需要英制/公制转换。

2. 理论上讲，6000E 仪器在大气温度摄氏 20 度时，测量范围 3—30 米。该

仪器工作原理是超声波反射测距，而实测范围是随大气温度而变化，但精确不受影响。大气温度越低，量程增加，大气温度越高，量程缩短。比如在零度时，量程增加 12%，在 35 度时，量程缩短 10%。

3. 海拔高度对测高仪的操作精度不产生影响，但测高仪不能在雨天或雪天使用，因为雨滴或雪片会产生错误的反射信号。如雨水进入测高仪，应把测高仪倒置并干燥超声波锥形口，雨水不会损坏仪器，但会干扰高质量声束的产生。测高仪可在雾天中使用，因为雾是很好的声波传递介质。

4. 测高仪从 3 米以上显示值，3 米以下是盲区。本仪器有意这样设计，是为了避免人员或物体干扰产生读数误

差。

5. 导线带电与否不影响测量值。

6. 6000E 测高仪数据不能转存、打印，如有特殊需要，请与我公司联系。

7. 由于重新进行了设计和改进，6000E 测高仪受风的影响降低了，显示值更稳定。

8. 在大气温度 -10°C — $+40^{\circ}\text{C}$ 内，仪器自动补偿误差。

9. 自购买之日起，仪器质保期 **3 年**（但不包括电池）。

10. 未经许可，自行开机或乱改将不再享受本公司质保期。

五、 水平距离

6000E 测高仪可以水平距离，如室内墙距离，电杆，变压器等，最大

测距 18 米。也可以测物体之间标准的距离,作为检验仪器精度的依据。具体操作如下:

1. 打开 ON 键。
2. 等显示屏右上角温度值与大气温度一致。
3. 把 Mea/Cal 开关定到下档。
4. 把仪器前端对着待测物体,按 M 键约 2—3 秒。
5. 按 R 键读取读数。
6. 同时按 R 和 M 键清除所有数据。

1.Function Key Instruction

R Read Button: Orderly read the output from the first lead to the sixth lead

M Measure Button: Push the button once and all measuring functions are completed.

Auto/Off Power Switch: Push once to power on. If no button has been pressed for 3 minutes, automatically power off.

R & M Button: Press the two buttons simultaneously to remove all data.

TOP/BTM Switch:

At TOP position, measure highest No. 6 to No. 1 lead

At BTM position, measure lowest

No. 1 to No. 6 lead.

Mea/Cal Switch:

At Mea position, measure trolley wire lead.

At Cal position, measure indoor distance or other distance between large objects or the dimensions of standard objects to verify the measuring accuracy of the instrument.

2.Operating Steps:

2.1)Power on.

2.2)Stand below the lead and in parallel with the lead

2.3)Wait until the temperature of display panel is same as the atmosphere.

2.4)If measuring the altitude, set the Mea/Cal Switch to Mea position. If measuring lowest No. 1 to No. 6 lead,

set the TOP/BTM Switch to lower position. If measuring highest No. 6 to No. 1 lead, set to higher position.

2.5) Hold the instrument by two hands firmly (At waist position. Absolutely not on ground). Press M button and release in 2 to 3 seconds.

2.6) Press R to read the output. If TOP/BTM Switch is in lower position, display panel will show distance from the lowest lead to the instrument bottom, distance from No. 1 lead to No. 2 lead, distance from No. 2 to No. 3 lead and so on. If the quantity of measured lead is less than 6, read number will be ----- . If TOP/BTM Switch is in higher position, display panel will show distance from the highest lead to the instrument bottom, distance from No. 6 to No. 5

lead, distance from No. 5 to No. 4 lead and so on. If there is a '-' sign in front of a read number, it means negative.

2.7) Press R and M buttons simultaneously to remove all data.

3. Power low alert and replacement

3.1) If the power voltage is less than 6V, the instrument will alert automatically and has alert display on top middle position of display panel. User should replace immediately. Otherwise it will measure accurately. Possible leakage may damage the instrument.

3.2) Battery is located in bottom left. Slide the cover to take out the 9V old battery. Pay attention to the polarity. Replace new battery and slide back the cover.

4.Other Notes

4.1)6000E series finder measures in metric system, not in British system.

4.2)In theory, 6000E system measures the distance between 3 meters and 30 meters when atmosphere temperature is 20 degree. The instrument uses echo reflection to detect the distance. Actual distance varies with atmosphere temperature. But accuracy has no such effects. Temperature is low, detecting distance increases. Temperature is high, detecting distance drops. For example, when temperature is 0 degree, measuring distance increases by 12 percent. When at 35 degree, distance shrinks by 10%.

4.3)Altitude has no effect on the

accuracy of the finder. Because rains and flakes may lead to wrong signals, the finder can not be used in rain or snow weathers. If rains drops into the finder, it must be converted and in dry environment. Rain will not damage the instrument but influence by wrong signals. The finder can be used in fog weather because fog is a good media for echo.

4.4)The finder will display read above 3 meters. Lower then 3 meters is the blind area. The finder is designed on purpose to avoid mislead by user or other objects.

4.5)The read number does not depend on the electrification.

4.6)6000E finder can not output and print data. If there is such a requirement,

contact our company.

4.7)By the redesign and development, 6000E finder has less effects on wind and read more constantly.

4.8)When atmosphere temperature between -10°C and $+40^{\circ}\text{C}$, the finder will compensate the error automatically.

4.9)Warranty time is three year since the purchase date. Battery is not included in the warranty.

4.0)Without authorization, breakup and fixing will void the company warranty.

5.Horizontal Distance

6000E can measure the horizontal distance, for example, wall distance, pole distance and inverter distance. Max distance is 18 meters. It can also measure the dimensions of standard

objects to verify the measuring accuracy of the instrument. Measuring steps:

5.1)Power on

5.2)Wait until the temperature of display panel is same as the atmosphere.

5.3)Set the Mea/Cal Switch to Mea position.

5.4)Position finder top to the measured object and press M button for 2 or 3 seconds.

5.5)Press R button to read

5.6)Press R & M buttons to clear all data