<u>**Instructions for KIT 7**</u>

SET-UP AND OPERATION OF EDM
(Electromagnetic Distance Measurement)
<u>**Vertical Jumps**</u>

   i.   **Preliminaries:** Ensure all batteries are put on charge well before the meeting.

1.   For High Jump and Pole Vault

a)   Location: Must give a clear and complete view of the bar. For Pole Vault centre of runway is best, and high jump centre behind fan.

b)   Assembly and Levelling:
   i.   Ensure tripod is set firmly into the ground at a convenient working height for all users with top plate as level as possible (use spirit level).

   ii.   Fit tribrach, making sure securing screw is tight and base cannot move.

   iii.   Level Tribrach, use two foot screws to centre bubble between them then adjust remaining screw to centre bubble in bubble-level.

   iv.   Fit geodimeter on tribrach (power socket goes in recess), lock tribrach in place.

   v.   Adjust for parallax - hand in front of telescope and check hairlines are sharp, adjust lens as necessary.

   vi.   Connect external batteries or mains power source (if used).
   <u>**TO POWER SOCKET ON TRIBRACH,**</u> <u>**NOT KEYPAD.**</u>

c)   Setting up the Instrument:
   i.   Turn power on.

   ii.   Either press **YES (enter)** to continue if already set up or **NO (←)** for machine to go to set up.

   iii.   Check level on display - if necessary carefully adjust on tribrach foot screws to centre both index marks *[Prolonged adjustment will force return to c) i.]*, and press **ENTER (Yes)**.

   iv.   Machine will perform self checks and rotate around then rotate back again.

   <u>**Note:**</u>

   v.   Enter approx. temperature, press **ENTER (Yes)** (*it may be necessary to press 'ENTER' twice*).

   vi.   Enter approx. atmospheric pressure, press **ENTER (Yes)** (*it may be necessary to press 'ENTER' twice*).

   vii.   Enter prism constant **Offset = 0.00**, press **ENTER (Yes)** (*it may be necessary to press 'ENTER' twice*).

   viii.   Enter **HA ref = 00.00.00**, press **ENTER (Yes)**.

ix. Press **PRG 0,** then enter.

x. Enter approx. temperature, press **ENTER (Yes)**

xi. Enter approx. atmospheric pressure, press **ENTER (Yes)**

xii. Enter prism constant OFFSET = 0.000, press **ENTER (Yes)**

xiii. Enter horizontal component (00.00.00), press **ENTER (Yes)**.

xiv. Set prism at the back of the box for pole vault, or on the ground under the centre of the bar for high jump.

xv. Sight on the prism, take the measurement by pressing **A/M.**

xvi. Leave the instrument locked in position and only vertical direction from now on.

xvii. Press Enter key until screen shows HA:,HD:,VD:.

xviii. Sight on the ground, back of the box or under the middle of the high jump to set the zero height.

xix. Press MNU key, Then Press 1 SET, Then Press 2 PRESET, Then Press 2 ROE.

xx. Enter ROE of 0.000 and press ENTER.

xxi. To check the height, Sight on the top of the bar vertically above the point on the ground. Do not attempt any adjustments of the instrument in a horizontal direction and do not attempt to take any measurements.

xxii. Use the VD reading as height measurement. (If VD not shown press ENT.)

Machine Serial Number 60830128 Keypad 67212671
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