Instructions for KIT 9

SET-UP AND OPERATION OF EDM

(Electromagnetic Distance Measurement)

Throws

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

1. For Long Throws

a) Location: Must give a clear view of the landing sector, circle centre and rim (or 8m point and arc for javelin).

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).
TO POWER SOCKET ON TRIBRACH, NOT KEYPAD.

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.

Note:

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)**.

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ix. Press **PRG 60**

x. Instrument reads: **IMEM**
EXMEM
SERIAL

xi. Ignore, press **ENTER (Yes)**.

xii. Prism in centre of circle (or 8m point), focus on prism, press **A/M**.

xiii. Wait for measurement (approx. 6 sec.), press **REG**.

xiv. User ='0', press back space **'←'**, enter circle radius (**1.25** for discus, **1.0675** for hammer/shot, **8.0** for javelin), press **ENTER (Yes)**.

xv. User = (blank), enter **'1'**, press **ENTER (Yes)**. (this is round number)

xvi. User = (blank), enter User No. **'1'**, press **ENTER (Yes)**. (this is entrant number)

xvii. Place prism on inner edge of circle or arc, focus on prism, press **A/M**.

xviii. Wait for measurement (approx. 6 sec.), press **REG**. Record this measurement (should read '**0**').

xix. To get back to next measurement press **No** to store.

xx. Take two initial check measurements at different locations in, or adjacent to, throwing area. Checks should be marked and measured using a steel tape. Record all readings and measurements. Repeat checks and edge of circle or arc at end of competition.

d) Taking Measurements:

i. Enter Round No. '**1**', press **ENTER (Yes)**.

ii. Enter User No.' **1**', press **ENTER (Yes)**.

iii. Aim telescope at landing point, focus on target prism when positioned. When cross hairs locked on prism, press **A/M**.

iv. Wait for measurement (approx. 6 sec.), press **REG**.

v. Record distance measured and signal clearly to prism handler to remove prism (*this may be done as soon as you are sure reading is correct*).

vi. Display shows ' Store?', press '**NO**'.

vii. Return to d) i. and repeat for all further trials.

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