










Electronic Theodolite ET Series

OPERATING INSTRUCTIONS



HORIZON[®]
MEASURE RIGHT

ET1005 KEY PADS FUNCTIONS

KEY PAD	USES	HOW TO?
POWER	Turning on/off instrument	Press POWER and release once beeping sound is heard to turn on the instrument. Press and hold POWER until "OFF" is displayed on the LCD to shut down instrument.
FUNC 	Enables additional selected keys to have 2 nd or other additional functions. Switching on/off the LCD back lighting and reticle cross-hair LEDs.	Press FUNC once check that indication "SHIFT" is displayed on the LCD below the Horizontal seconds display. De-select by pressing FUNC again. "SHIFT" on the LCD is off. Press and hold FUNC until the LCD back lighting and reticle cross-hair LEDs are lit. De-select by pressing and holding FUNC until these LEDs are off.
HOLD	"Freezes" displayed horizontal angle on LCD.	Depress HOLD twice to "freeze" the horizontal angle display on the LCD. "HOLD" indication is displayed on the left bottom of the LCD. De-select by depressing HOLD again.
RPT 	Allows angle measurements to be repeated. Special mode	Press RPT allows the instrument to be used for repeated angle measurements on selected points of interest. Pressing  causes the cursor to move to right of display.
L/R	Allows selection of left or right horizontal angle for display on LCD.	Press L/R to change the direction of the measured horizontal angle display to change from left to right and vice versa.
REC 	Allows storage of measured angles in instrument. Special mode – left shift	After each measurement press REC will allow the angles to be stored in the instrument memory – up to 256 x 2. Pressing  causes the cursor to move left of display.
OSET OUT 	Allows the horizontal angle to be set to "0" reading. Allows the measured angles to be stored in data collector. Special mode – up shift and increment of display value.	Press OSET twice will set the horizontal angle to "0". Pressing OUT after each measurement will save the measured angles through the serial connection on the instrument to the connected data collector memory. Pressing  causes the cursor to move up the display/ increases the value of affected item displayed.
V / % MEAS 	Allows the display of measured vertical angle and grade percentage. Distance measurement Special mode – down shift and decrement of value	Press V / % selects either the vertical angle or the grade percentage to be displayed on the LCD. Pressing MEAS activates a connected EDM to measure. Pressing  moves the cursor downwards/ decreases the value of affected item displayed

GAINING ACCESS TO SPECIAL MODE SET UP

Press L/R then POWER and wait for 3 beeps to sound before releasing these keys.

- **CHANGING TIME DISPLAY**

Press FUNC once. The time displayed will be initialised to 2007-01-01 00:00.

Use the ►, ◀, ▲ and ▼ keys to achieve the desired results. There is no provision for second's display. Press FUNC again to confirm settings changes into the instrument memory.

- **CHECKING INSTRUMENT SERIAL NUMBER**

Press FUNC then POWER to turn on instrument. After 3 beeps the display will show the instrument serial number, e.g. r12345. This should be similar to the serial number on the instrument body – T12345. Warranty is void if these numbers are dissimilar unless expressly documented during purchase.

Press FUNC to exit.

- **CHECKING STORED ANGLES**

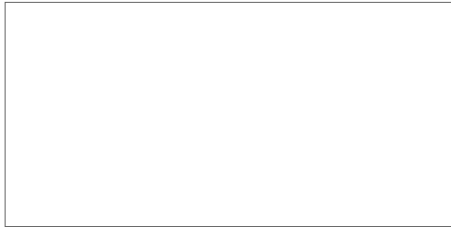
Press FUNC then POWER to turn on instrument. After 3 beeps the display will display the serial page. Press V/ %, the internal stored value of the angle is shown – n. 0000 signifies no internal stored value. If n. 0001 is displayed the stored value can be checked by using the ►, ◀, ▲ and ▼ keys.

Press FUNC twice to return to the serial number page and then exit special mode into the normal measurement mode.

- **CLEARING STORED ANGLES**

Press FUNC then POWER to turn on instrument. After 3 beeps the display shows the serial page. Press V/ %, the internal stored value of the angle page is shown. Press ▼ for about 6 seconds until 3 beeping sounds are heard and CLEAR is displayed on the LCD. All stored values are cleared. Press FUNC to exit.

Your HORIZON Partner



www.horizon.sg