

Product Data Sheet

Psychrometer (Thermo-Hygrometer I.R. Laser)

Reference 92000-007/N-bt



Specifications

- **Ambient temperature:**
 - 20+50°C/-4+122°F
- Display resolution: 0.1°
- Accuracy: $\pm 0.6^{\circ}\text{C}$ / $\pm 1^{\circ}\text{F}$
- **Humidity:** 0+100% RH
- Display resolution: 1% RH
- Accuracy: $\pm 3\%$ between 10 and 90% otherwise $\pm 5\%$
- **IR Temperature:**
 - 40+500°C/-40+932°F
- Accuracy: $\pm 2\%$ or 2°C between -20+450°C otherwise $\pm 3\%$ or 3°C
- **Dew point:** -68+49.9°C / -90.4+122°F
- 4 LR03AAA batteries not included

Instructions

IR THERMOMETER

Press the sensor device before operation. To turn the meter on by pressing SET or MEAS key. Press MEAS key to measure the surface temperature by IR. While IR is working, the symbol  will appear on LCD screen. Press MEAS IR and LASER at the same time to inactivate the laser targeting. Press above keys again to activate laser targeting.

PARAMETER SETTING

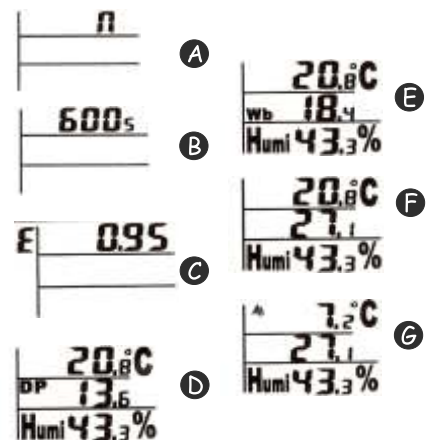
The unit will turn itself off after 5 minutes. To override the auto power off function, press SET key and °C/°F key when turning on the instrument. When "n" appears, release the keys and the unit is now in Non-Sleep Mode (**fig A**). The auto power off time frame can be adjusted from 5 to 600 seconds. While the meter is on, press SET key to enter setting procedure. Press °C/°F key for up and LASER key for down. Press SET key again to save parameters and enter emissivity setting (**fig B**). The emissivity is adjustable from 0.3 to 0.99. Press SET key twice to enter setting procedure while the meter is on. "E" will flash on the left side. Press °C/°F key for up and LASER key for down. Press SET key again to save parameter and back to normal (**fig C**).

Press DP/WB key to show the DP on the LCD. Press again to show the Wb on the LCD. Press again to show the air temperature on the LCD (**fig D, E, F**). Press DP/WB key for 2 seconds to show  on the LCD.  means T1-DP (**fig G**). Press DP/WB again for 2 seconds to go back to IR temperature Display.

Battery indicator

level 1 : the battery flashes : battery replacement should be expected.

level 2 : the battery is permanently displayed : replace the batteries immediatly.



CALIBRATION

Turn off the meter without retracting the probe (humidity capacitance sensor) and plunge it into the 33% salt bottle. Pressing LASER key and °C/°F key at the same time and hold, then press SET key as well to turn the meter on. The meter will enter calibration mode. 32.8 will flash on the LCD screen. After 30 minutes, the flashing stops to indicate that the 32.8% calibration procedure is finished. Move the probe into the 75% salt bottle and press SET key to enter 75.3% calibration. 75.2 will flash on the LCD screen. After 30 minutes the flashing stops to indicate the whole calibration has been completed, and the calibration data has been saved in the memory. Press SET key for more than 2 seconds to turn the meter off.

Note : You can exit calibration without saving by pressing SET key more than 2 seconds. Auto power off is disabled in calibration mode. In order to get high accuracy, you are better off doing the calibration at 23° C. To plug the probe into salt bottle, slightly rotate the probe into bottle and DO NOT push too hard.

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