HygroPalm 0

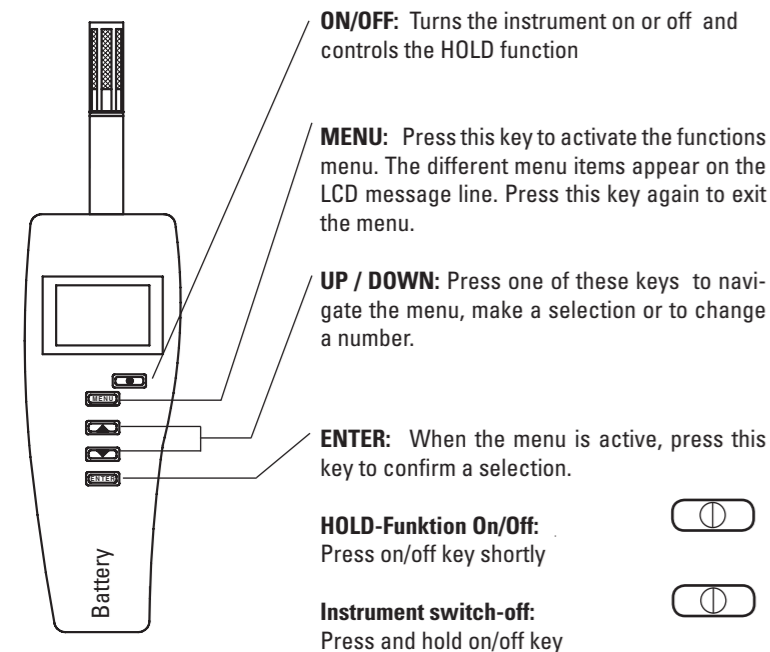## Portable humidity and temperature instrument

Operating instructions

General description:
The HygroPalm 0 instruments are indicators for relative humidity and temperature with an integrated probe. The sensor module measures relative humidity and temperature; all indicated values are calculated from these by the HygroPalm. This operating instruction manual is a concentrated excerpt of the full version (in English and German) that is published on the Internet. For better comprehension, it is completed with flow charts.

The full version may be downloaded from www. rotronic-humidity.com

Fuction Keys

ON/OFF: Turns the instrument on or off and controls the HOLD function

MENU: Press this key to activate the functions menu. The different menu items appear on the LCD message line. Press this key again to exit the menu.

UP / DOWN: Press one of these keys to navigate the menu, make a selection or to change a number.

ENTER: When the menu is active, press this key to confirm a selection.

HOLD-Funktion On/Off:
Press on/off key shortly

Instrument switch-off:
Press and hold on/off key

Power Supply
HygroPalm operates with a regular 9V alkaline battery or with a 9V rechargeable battery.

Important: The HygroPalm is shipped with a regular 9V battery and is factory preset with the battery charge function turned off. If you plan on using a rechargeable battery (requires docking station), you should turn on the charge function (see Menu – Sys-Status). Before using a regular battery again, be sure to turn off the battery charge function. Trying to charge a regular battery may cause the battery to burst and may damage the instrument.
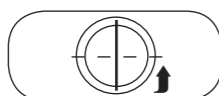
Battery:
Type: 9V / 6AM6 or 8.4 V accumulator TR7/8

The display provides information regarding the battery status. When the message „Low Batt" appears, the instrument can typically be used for another 10 to 15 minutes.

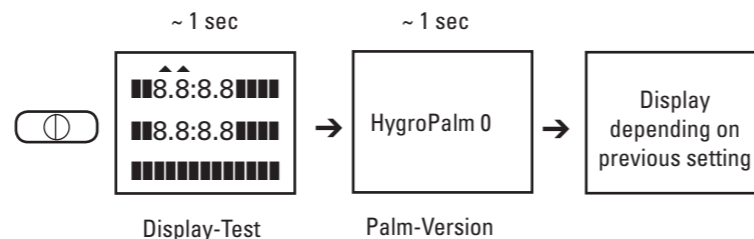### Battery compartment:
For opening: Turn handle and pull

Optional Docking Station (PalmDock)
For HygroPalm 0, an optional docking stationis available. The docking station accepts an external AC adapter for recharging the battery. HygroPalm 0 has no RS232 interface.
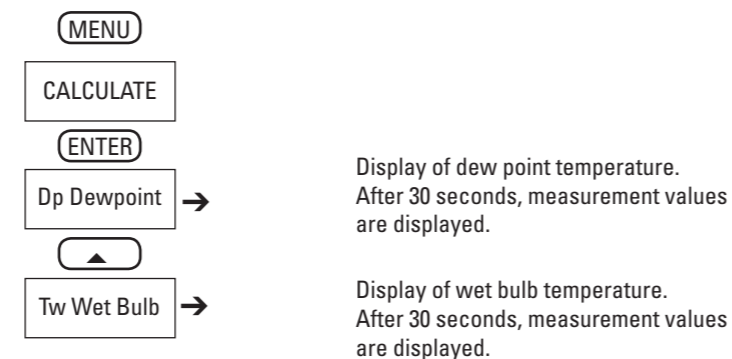
Operating of Hygropalm 0
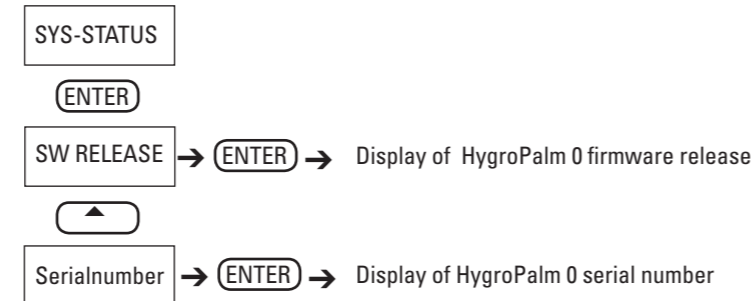1. Switching-on , measurement

2. Menu selection
Press the Menu key, then push an arrow key. Every push on the arrow key changes to the next menu item. After the last menu item is reached, a new push returns to the first menu item. The details of the menu items are described below:
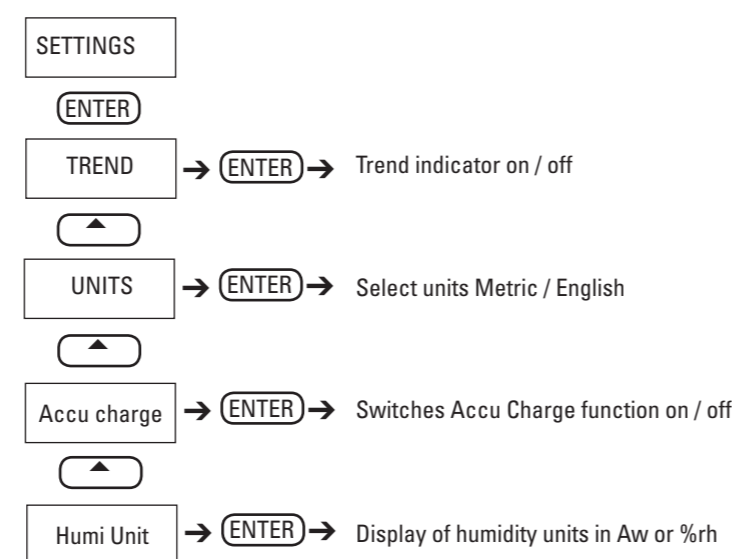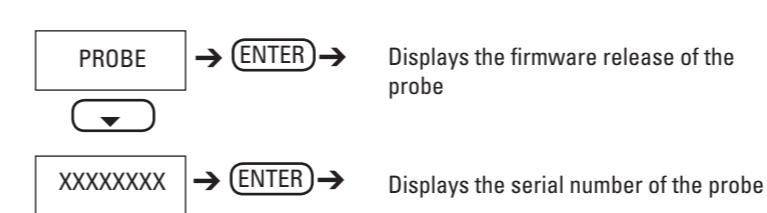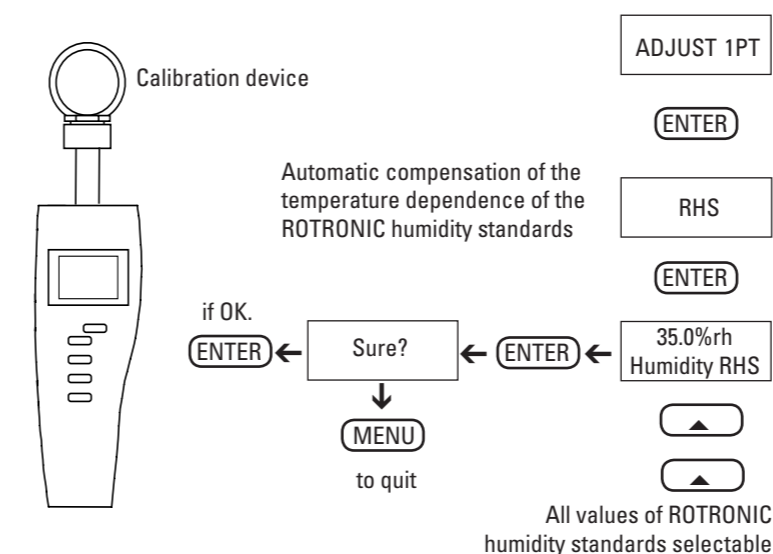
3. Menu CALCULATE

Display of dew point temperature. After 30 seconds, measurement values are displayed.

Display of wet bulb temperature. After 30 seconds, measurement values are displayed.

4. Menu SYS-STATUS

Display of HygroPalm 0 firmware release

Display of HygroPalm 0 serial number

5. Menu SETTINGS

Trend indicator on / off

Select units Metric / English

Switches Accu Charge function on / off

Display of humidity units in Aw or %rh

6. Menu PROBE

Displays the firmware release of the probe

Displays the serial number of the probe

7. Menu ADJUST 1 PT
One point adjustment with ROTRONIC humidity standards

Calibration device

Automatic compensation of the temperature dependence of the ROTRONIC humidity standards

All values of ROTRONIC humidity standards selectable

8. Menu DISPLAY
Example dew point: (Requires pre-setting for dew point measurement)
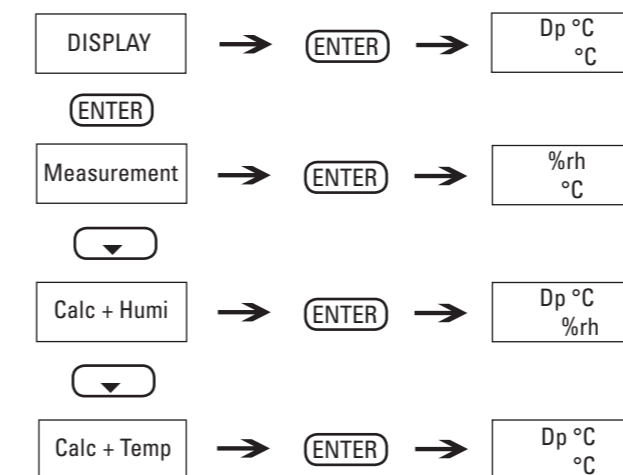
Technical data

Operation	9V alkaline battery 12...15 VDC adapter (100 mA) C (+) Tip 9V rechargeable battery, 110 mAh
Max. current consumption	10 mA
Operating limits at electronics	0…99 % rh / -10…+50 °C
Measured parameters relative humidity temperature	0…100,0 %rh -99,9…+999,9 °C or °F
Calculated parameters	dew / frost point and wet bulb temperature [1]
System accuracy at 23 °C/73 °F	± 1.5 %rh / 0.3 K
Probe type	integrated digital probe
Display	alphanumerical LC display with trend indicator
Battery status	automatic Indication
HOLD function	briefly push the ON/OFF Button
Housing material	ABS
Housing dimensions	230 x 80 x 30 mm
Weight (w/o probe)	200 g

[1] For the computatioin of these parameters, a pressure constant of 1013.25 hPa is used.