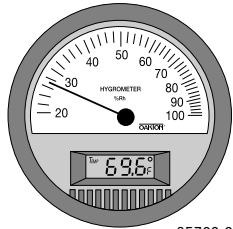## OPERATING INSTRUCTIONS

OAKTON 35700-00, -10, -20 and 03313-70

Wall-Mount Thermohygrometers
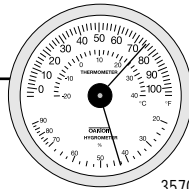

35700-20

35700-00
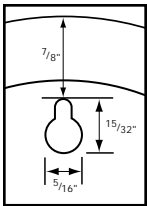

03313-70

35700-10

Printed in the U.S.A. 01/02

OAKTON®

Introduction

Thank you for purchasing an OAKTON Thermohygrometer. You have one of four models. All models are ideal for monitoring relative humidity and temperature in laboratories, offices, greenhouses, food storage rooms, animal rooms, or computer rooms.

Operation

These thermohygrometers are maintenance free and do not require any special adjustments.

Models 35700-10, 35700-20, 03313-70

These models require no batteries or external power to operate.

Humidity adjustment (Model 03313-70 only)

To adjust or reset the RH, remove sticker to reveal opening with an inset screw. Use a screwdriver to adjust the RH. For increased accuracy, use a Hygrometer know to be accurate and adjust RH to match. See diagram.

Front   Back

Model 35700-00

Front

Although the relative humidity scale requires no batteries or external power to operate, this model requires one 1.5 V AA battery to operate the digital thermometer.

To change the battery, open the lid on the back of the thermohygrometer and insert the AA battery (see diagram below). The positive (+) and negative (–) poles are shown at the bottom of the battery compartment.

Temperature selection (Model 35700-00 only)

This instrument is factory set to read temperature in °C. To change to °F, locate the switch under the vents on the back panel (fourth opening from the left). Move the switch to the left with a screwdriver. To return to °C, set the screwdriver into the third opening from the left and move the switch to the right. See diagram.

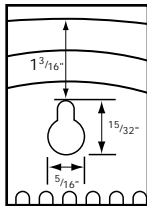°C/°F slide switch   battery compartment
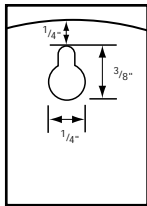
Back

Installation

Low cost thermohygrometer
(model 35700-10)

Large dial thermohygrometer
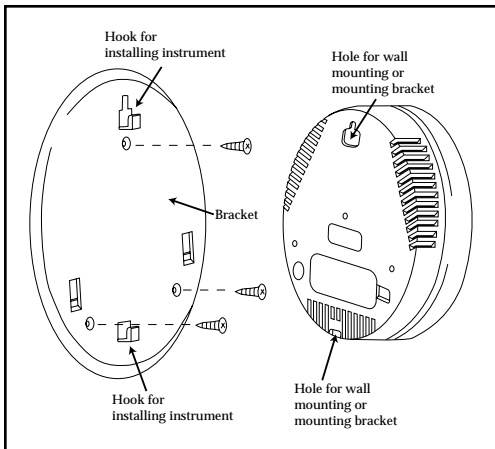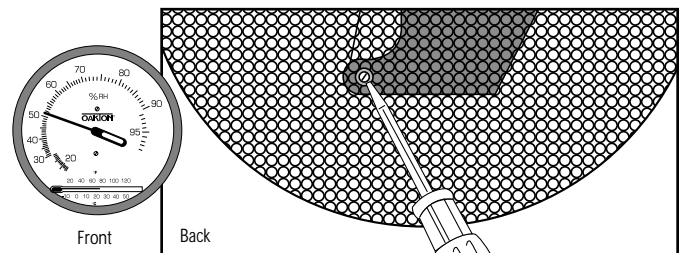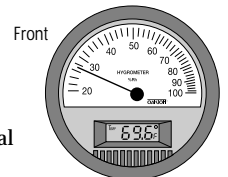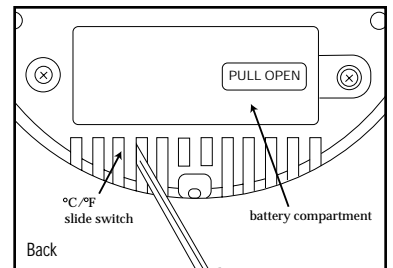(model 35700-20)

Basic thermohygrometer
(model 03313-70)

Thermohygrometer with digital thermometer (model 35700-00)

Model 35700-00 includes a wall mounting bracket for permanent mounting.

Mounting with the bracket:
1. Mount the bracket on a wall with the screws. See diagram.
2. Slide the holes on the back of the instrument over the bracket hooks. See diagram.

Hook for installing instrument

Hole for wall mounting or mounting bracket

Bracket

Hook for installing instrument

Hole for wall mounting or mounting bracket

Precautions

1. Handle with care. Your instrument uses precise mechanisms to transmit the movement of the sensors. Rough treatment can damage the mechanisms.
2. Avoid direct contact with water and high levels of condensation. This instrument is not waterproof, and its vents are intended only for air circulation.
3. Because the thermometers are also made with precision parts, the instrument must not be stored in extreme temperatures. Avoid rapid temperature changes and strong physical shocks. The instrument must not be placed near heating units or in direct sunlight.
4. For accurate humidity readings, keep the instrument in a vertical position.
5. Dismantling the instrument can affect its accuracy.
6. Remove stains with a soft cloth and mild detergent.
7. Never use in environments that contain solvents like acetone, benzene, alcohol, or acids and bases.
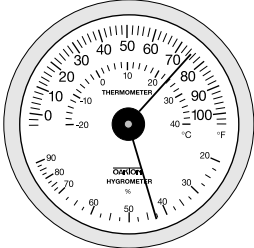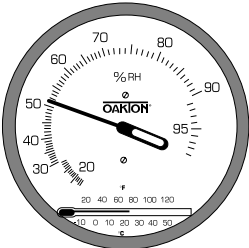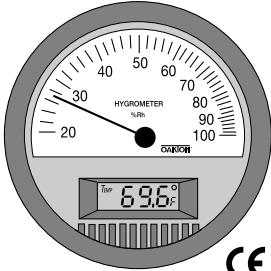
Warranty

Oakton Instruments warrants this product to be free from significant deviations in material and workmanship for a period of 1 year from the date of purchase. If repair is necessary and has not been the result of abuse or misuse within the warranty period, please return by freight pre-paid and amendment will be made without charge. The Customer Service Department will determine if the product problem is due to deviations or customer abuse. Out of warranty products will be repaired on a charge basis.

Return of Goods

Authorization must be obtained from our Customer Service Department before returning items for any reason. When applying for authorization, please include data regarding the reason the items are to be returned. For your protection, items must be carefully packed to prevent damage in shipment and insured against possible damage or loss. We will not be responsible for damage resulting from careless or insufficient packing. A restocking charge will be made on all unauthorized returns.

NOTE: We reserve the right to make improvements in design, construction, and appearance of products without notice.

Specifications

Model no.	35700-10 Low-cost Thermohygrometer	35700-20 Large Dial Thermohygrometer	03313-70 Basic Thermohygrometer	35700-00 Wall mount Thermohygrometer with digital thermometer
Relative Humidity				
Range	25 to 80% RH	25 to 80% RH	20 to 99% RH	20 to 100% RH
Resolution	2.5% RH	5% RH	1% RH	2% RH
Accuracy	±5% RH from 25 to 70% ±8% RH from 70 to 80% (at 15 to 25°C)	±5% RH from 25 to 70% ±8% RH from 70 to 80% (at 15 to 25°C)	±3% from 20 to 50°C; ±8% from 90 to 100% RH	±4% from 20 to 90% RH;
Sensor	paper-coated metal coil	paper-coated metal coil	synthetic hair	human hair bundle
Temperature				
Range	−4 to 104°F / −20 to 40°C	−22 to 122°F / −30 to 50°C	−4 to 120°F / −20 to 50°C	0 to 160°F / −18 to 72°C
Resolution	2°F / 1°C	2°F / 1°C	2°F / 1°C	0.1°F or °C
Accuracy	±3.6°F / ±2°C	±3.6°F / ±2°C	±3.6°F / ±2°C	±1.8°F / ±1°C
Sensor	metal coil	metal coil	alcohol-filled glass thermometer	solid state (digital) 3-digit LED
Power	none required	none required	none required	one AA battery
Dimensions	5" dia x 1"D	10.75" dia x 0.7"D	4.1" dia x 0.7"D	5" dia x 1.1"D
Shpg wt	0.3 lb	0.5 lb	0.3 lb	2 lbs

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