Meteorological Instruments

SLC Module D5
# 1: MINIMUM-MAXIMUM THERMOMETER

-KNOW HOW TO-
Read Current Temperature, Read Maximum and Minimum Temperatures, and Reset.
# 1: MINIMUM-MAXIMUM THERMOMETER (Readout)

Current Temperature:
Ambient instrument without Probe
Ambient probe with Probe attached

Alarm Control
Normal/Alarm Mode Selector

Record of Minimum Reading
Record of Maximum Reading

Alarm Control
# 1: MINIMUM-MAXIMUM THERMOMETER (rear control panel)

In Normal Display Mode
Use to reset either MIN or MAX

Fast Sampling
Rate = 10 sec

In Alarm Display Mode
Use to reset either LO or HI

Normal Sampling
Rate = 60 sec

Select Temp Scale Displayed

Select Temp Scale Displayed
# 1: MINIMUM-MAXIMUM THERMOMETER (reset unit)

Insert a slender object and push RESET gently. Necessary to do this whenever a change is made between °C/°F, FAST/NORMAL, Probe inserted/removed.

Note that HI/LO alarm settings and MIN/Max readings will be cleared!
# 2: YSI TELE-THERMOMETER WITH PROBE

-KNOW HOW TO- Identify and Operate
# 3: MINIMUM THERMOMETER

-KNOW HOW TO-

Read Current Temperature, Read Minimum Temperature, and Reset
# 3: MINIMUM THERMOMETER

(Detail of temperature reading)
#4: THERMOHYGROGRAPH

-KNOW HOW TO-

Read Relative Humidity and Temperature for Given Time and Day and Convert to °C.

\[
{^\circ}F - 32 \times \frac{5}{9} = {^\circ}C \quad {^\circ}C \times \frac{9}{5} + 32 = {^\circ}F
\]
#4: THERMOHYGROGRAPH
(Details of chart recorder)

Temperature Scale

Relative Humidity Scale
#5: SLING PSYCHROMETER

-KNOW HOW TO-
Read Wet Bulb and Dry Bulb Temperatures and % Relative Humidity

Dry Bulb ➔ Wet Bulb
#5: SLING PSYCHROMETER
(Details of reading difference between wet and dry bulb temperatures)

Wet Bulb = 62°F
Dry Bulb = 68°F
#5: SLING PSYCHROMETER
(Line up wet and dry bulb temperature readings and use white arrow head to read Relative Humidity on humidity scale)

Dry Bulb Scale

Wet Bulb Scale

Humidity Scale

Relative Humidity Reading = 70 %
# 6: BENDIX PSYCHROMETER
(Front View)
-KNOW HOW TO-
Read Wet and Dry Bulb Temperatures and from TRē Diagram Determine % Relative Humidity and Dew Point Temperature
# 6: BENDIX PSYCHROMETER  
(Back View)  
-KNOW HOW TO-  
Read Wet and Dry Bulb Temperatures and from TR eDiagram Determine % Relative Humidity and Dew Point Temperature
# 6: BENDIX PSYCHROMETER
(Top View)

Wet Bulb Thermometer

Dry Bulb Thermometer
# 6: BENDIX PSYCHROMETER
(Details of reading difference between wet and dry bulb temperatures)
Psychrometric Slide Rule
(Used to determine Relative Humidity from Wet and Dry Bulb Readings)

Wet Bulb reading = 15.0°C
Dry Bulb reading = 22.5°C
Relative Humidity = 43%
TRe Diagram
(Used to determine Relative Humidity from Wet and Dry Bulb Readings)
#7D: DIGITAL HOT-WIRE THERMO-ANEMOMETER WITH PROBE

-KNOW HOW TO-
Determine the Wind Speed (Air Speed) at any Designated Place
#8: RAIN GAUGE

-KNOW HOW TO-
Read Rainfall in Inches
(and Convert to Centimeters)

Detailed View of Measurement
3.00 inches
#9: LIGHT METER (GE TRIPLE RANGE)

-KNOW HOW TO-
Read Light Intensity at Indicated Place

High Intensity Screen ➤
#10: RADIOTRANSMITTER

- IDENTIFY AND KNOW PURPOSE -

RADIOTRANSMITTER

THIS IS INSTRUMENT #10

INSIDE IS A TINY BATTERY.

IDENTIFY AND KNOW PURPOSE
Instructions for use are covered in the blue binder.
# 13: VOLTOMETER WITH THERMOCOUPLES

-IDENTIFY AND KNOW PURPOSE-
# 14: SOIL THERMOMETER

-IDENTIFY AND KNOW PURPOSE-
#15: PYRHELIOMETER

-IDENTIFY AND KNOW PURPOSE-
#15: PYRHELIOMETER

-IDENTIFY AND KNOW PURPOSE-
#15: PYRHELIOMETER

(Details of Chart)
#16: CUP OR CONTACT ANEMOMETER

-IDENTIFY AND KNOW PURPOSE-
#17: DWYER ANEMOMETER

- IDENTIFY AND KNOW PURPOSE -
#18: EVAPORIMETER

- IDENTIFY AND KNOW PURPOSE -
#18: EVAPORIMETER

-IDENTIFY AND KNOW PURPOSE-
#20: RECORDING THERMOMETER

-IDENTIFY AND KNOW PURPOSE-
#22: Relative Humidity Measuring Device

-IDENTIFY AND KNOW PURPOSE-
### #22: Relative Humidity Pen

**Front panel controls**

- **Temp Scale Selector**: Reset by pressing MIN/MAX then RESET.

**Top panel controls**

- **HYGRO MIN/MAX Recall**: Press once to view again to return to current.
- **POWER On/Off**: Reset by pressing both at same time.