

# USER MANUAL

VER. 1.2



**ARANKA**



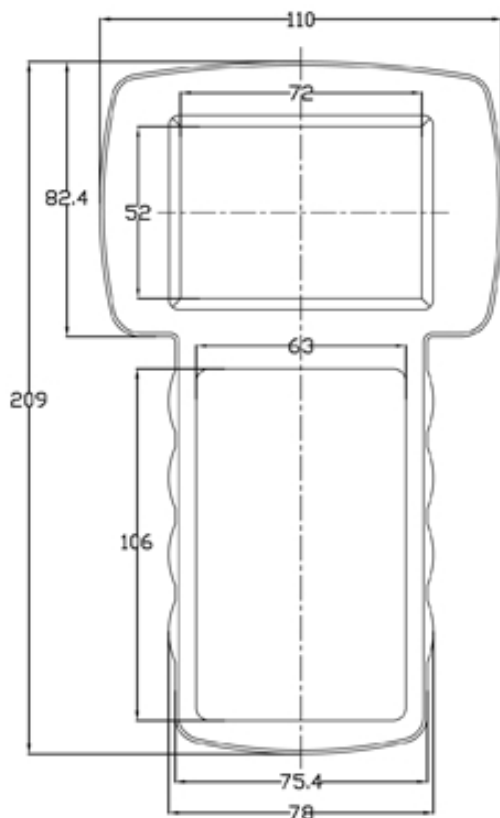
**AIDP 18H**

***HAND HELD  
DEW POINT METER***

# MENU

- 1) DIMENSION
- 2) SENSOR CONNECTION
- 3) SPECIFICATION
- 4) KEY FUNCTION
- 5) CALIBRATION

## DIMENSION



## SENSOR CONNECTION



## **SPECIFICATIONS**

**POWER : 90~260VAC @ 50Hz**

**TEMPERATURE RANGE : -40~60'C,**

**HUMIDITY RANGE : 0~100%RH**

**DEW POINT RANGE : -50~50'C / -80 ~50'C**

**DISPLAY : LCD [16X4]**

**SENSOR MOC : S.S304**

**SENSOR CONNECTION : 1/2" BSP MALE**

**FILTER : BRASS SINTERED FILTER**

**SENSOR ELECTRIC CONNECTOR : M12**

**INTERFACE CABLE LENGTH : 6 METER SHIELDED**

**ACCURACY : +/- 3 ' C**

**INSTRUMENT MOC : ABS**

**OPERATING TEMPERATURE : -40~55'C**

**OPERATING HUMIDITY : 0~85%RH**

**CHARGER : INPUT 100-240VAC @ 50Hz OUTPUT 12VDC 1AMP**

**BATTERY : LITHIUM 11.1VDC 1000mAh**

# KEY FUNCTIONS



TO SET POINT RELAY FUNCTION



TO CALIBRATE INSTRUMENT



TO INCREASE VALUE &  
IT WILL SCROLL 0 TO 9



TO SHIFT DIGIT

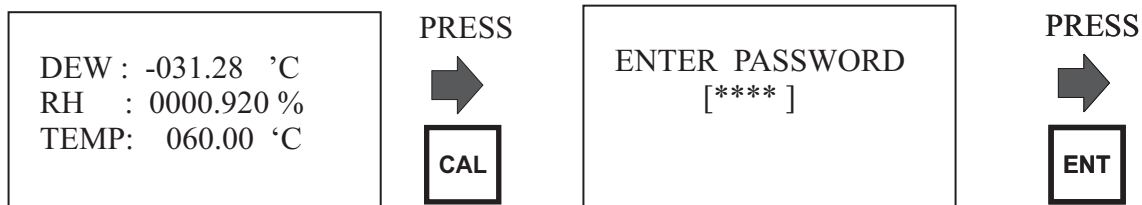


TO SET PARAMETER SETTING

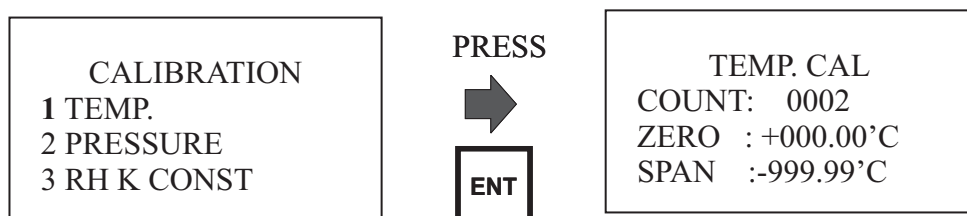


TO SAVE DATA  
&EXIT TO MAIN DISPLAY

# CALIBRATION FUNCTIONS



PRESS CAL KEY ENTER PASSWORD FOR CALIBRATION SCREEN. USING INCREASE & SHIFT KEY ENTER PASS WORD \*\*\*\*. PRESS ENT KEY FOR NEXT SCREEN



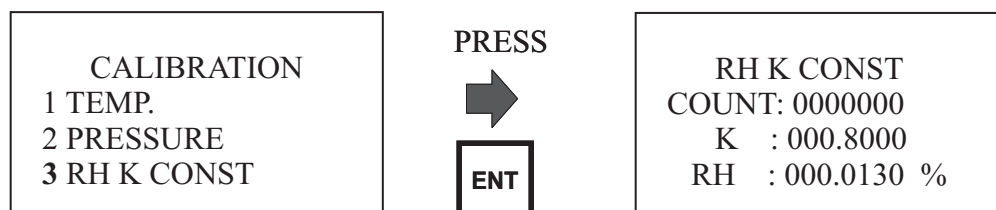
USING SHIFT KEY SELECT UNIT TO BE CALIBRATED. THE CURSER WILL BLINK WHICH UNIT IS SELECTED FOR CALIBRATION. PRESS ENTER FOR UNIT CALIBRATION.

## **TEMPERATURE CALIBRATION [TEMP CAL] :**

CONNECT RTD SIMULATOR. FEED SIMULATION OHMS FOR MINIMUM TEMPERATURE RANGE REQUIRE. ENTER VALUE OF MINIMUM RANGE WAIT FOR ABOVE COUNT FOR STABLE. PRESS ENT KEY TO SAVE VALUE.

FEED SIMULATION OHMS FOR MAXIMUM TEMPERATURE RANGE REQUIRE. ENTER VALUE OF MAXIMUM RANGE WAIT FOR ABOVE COUNT FOR STABLE. PRESS ENT KEY TO SAVE VALUE.

PRESS CAL KEY TO BACK MAIN CALIBRATION MANU.



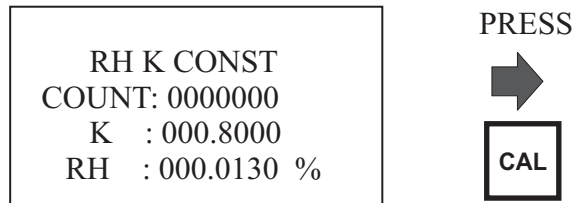
## **HUMIDITY CALIBRATION [RH CAL] :**

TO CALIBRATE KEEP MASTER DEW POINT AND AIDP18H IN PARALLEL TUBING THAN KEEP PRESSURE 1 BAR CONSTANT USING PRESSURE REGULATOR. NOW CHECK THE HUMIDITY VALUE IN MASTER DEW POINT AND MAKE CORRECTION IN AIDP18H AT [RH : 000.0130 %] MOVE CURSOR TO RH USING ENT KEY.

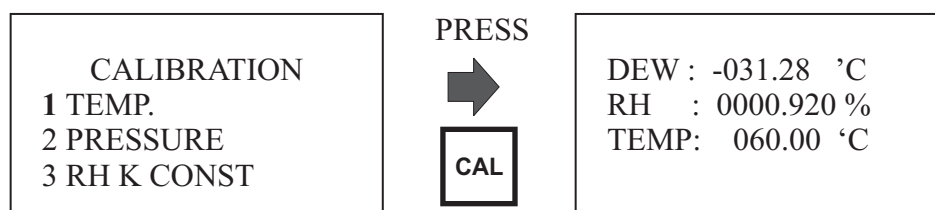
# CALIBRATION FUNCTIONS

UP KEY & SHIFT KEY CHANGE RH VALUE, AFTER CORRECTION OF RH VALUE PRESS ENT KEY. IT WILL SAVE CHANGED VALUE DATA OF RH.

**NOTE: DO NOT CHANCE CONST K VALUE**



AFTER COMPLETIONS OF RH CALIBRATION PRESS CAL KEY TO BACK CALIBRATION SCREEN & PRESSING AGAIN CAL KEY TO BACK MAIN SCREEN.



**NOTE: TO MAKE RH & TEMPERATURE FINE TUNING YOU CAN ALSO USE OFFSET CALIBRATION FROM SETTING MANU.**

# PARAMETER SETTING

DEW : -031.28 °C  
RH : 0000.920 %  
TEMP: 060.00 °C

PRESS



MENU  
1 SETTING  
2 FACTORY SETTING

PRESS



PRESS PROG KEY TO ENTER SETTING PARAMETER . SELECT CURSOR AT 1 SETTING  
PRESS ENT KEY. SCREEN ASK FOR PASSWORD. ENTER PASSWORD 6789 TO  
ENTER KEY. USING INCREMENT AND SHIFT KEY.

ENTER PASSWORD  
[\*\*\*\* ]

PRESS



1 RELAY  
2 OFFSET  
3 ANALOG OFFSET  
4 MIN-MAX SET

PRESS



## **OFFSET :**

TO SET OFFSET FUNCTION SET CALIBRATION OFFSET VALUE.

TEMP. : +002.00  
RH : +000.0010  
PRESS. : +000.00  
DEWPNT: +000.00

TO MAKE FINE TUNNING READING YOU CAN  
MAKE OFFSET CALIBRATION.

USING INCREMENT AND SHIFT KEY YOU CAN SET  
DESIRE VALUE AND PRESSING ENT KEY CURSOR  
WILL SHIFT TO NEXT PARAMETER AFTER  
COMPLETIONS ALL PARAMETER PRESS PROG KEY  
TO BACK OF PARAMETER SCREEN.

# PARAMETER SETTING

## MIN-MAX SET :

TO SET ALL PARAMETER MINIMUM AND MAXIMUM RANGE.

|                                                                                       |                                                                                                                                                                                                       |                                                                          |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <div>1 TEMPERATURE</div> <div>2 PRESSURE</div> <div>3 RH</div> <div>4 DEW POINT</div> | <p>PRESS</p> <div style="display: flex; align-items: center; justify-content: center;"><div style="margin-right: 5px;">➔</div><div style="border: 1px solid black; padding: 2px 5px;">ENT</div></div> | <div>TEMPERATURE</div> <div>MIN : +000 'C</div> <div>MAX : +000 'C</div> |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|

USING INCREMENT AND SHIFT KEY YOU CAN SET DESIRE VALUE AND PRESSING ENT KEY CURSOR WILL SHIFT TO NEXT PARAMETER AFTER COMPLETIONS ALL PARAMETER PRESS PROG KEY TO BACK OF PARAMETER SCREEN.

|                                                                                       |                                                                                                                                                                                                       |                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
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|                                                                                       |                                                                                                                                                                                                       |                                                                             |
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|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

USING INCREMENT AND SHIFT KEY YOU CAN SET DESIRE VALUE AND PRESSING ENT KEY CURSOR WILL SHIFT TO NEXT PARAMETER AFTER COMPLETIONS ALL PARAMETER PRESS PROG KEY TO BACK OF PARAMETER SCREEN.

# APPLICATION

## COMPRESSED AIR / GAS LINE



# WARRANTY CERTIFICATE

AIDP18H SR. NO. : \_\_\_\_\_

DATE : \_\_\_\_\_

AUTHORISED SIGN : \_\_\_\_\_



**ARANKA**

**USER MANUAL**



**ARANKA** INSTRUMENTS **LLP**

FACTORY :

50, NILKANTH INDUSTRIAL PARK,  
AMBIKA TUBE COMPOUND,  
NEAR OVER BRIDGE VATVA, GIDC,  
Vatva, Ahmedabad - 382445.

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**MODEL : AIDP18H**



**ARANKA** INSTRUMENTS **LLP**