ARANKA

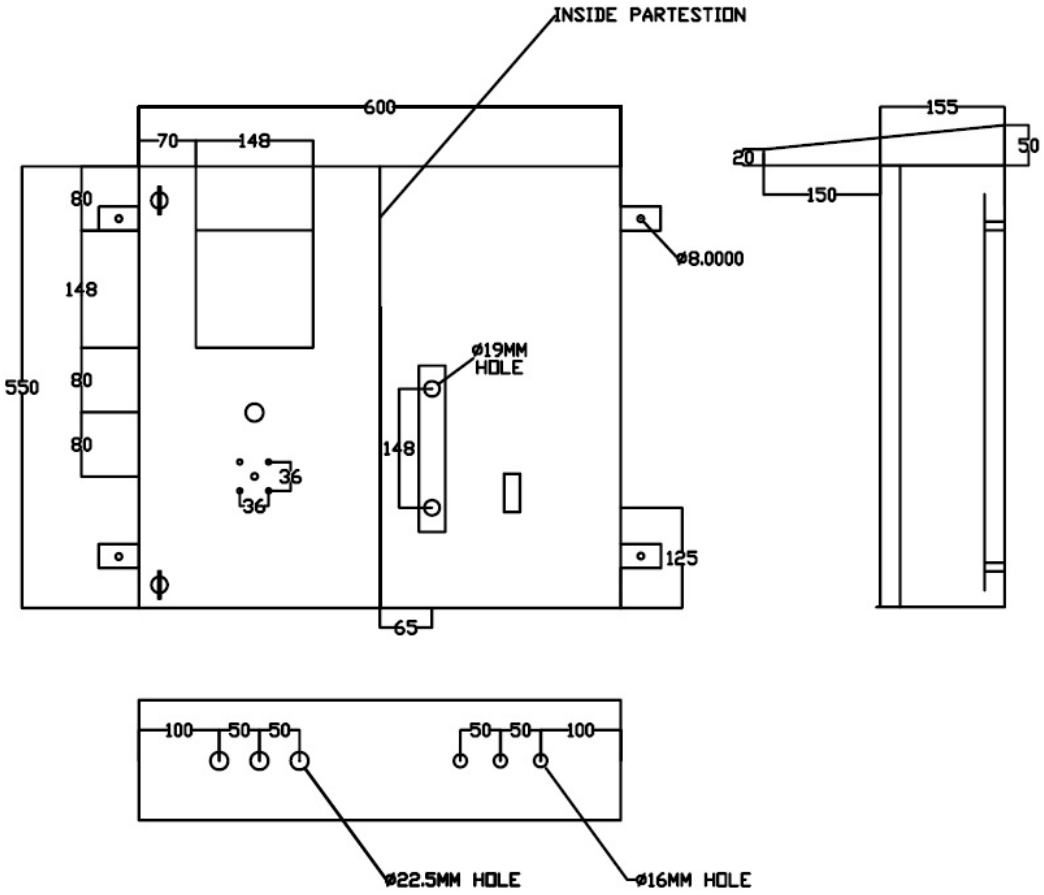
USER MANUAL
AIPA-1908

TURBIDITY ANALYSER

SINGLE CHANNEL

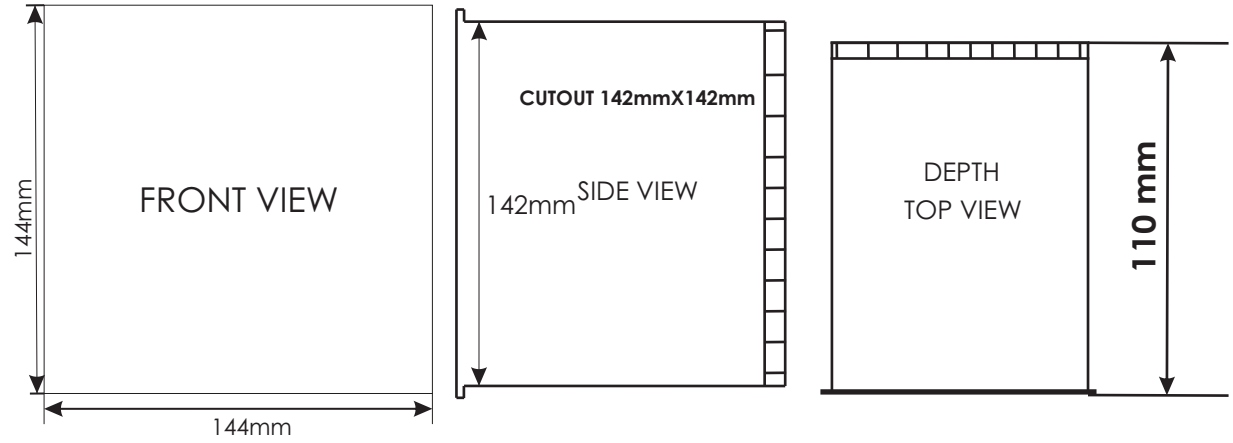
Ver. 1.0

DIMENSION

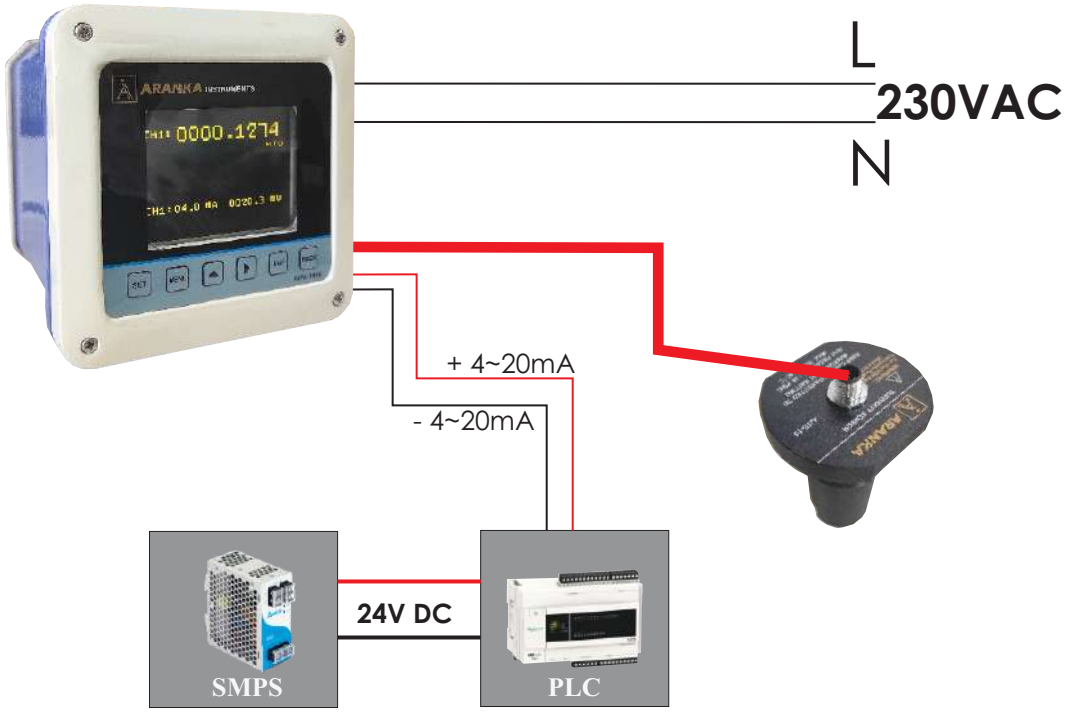

INSIDE PARTESTION
600
70
148
80
148
550
80
80
36
36
148
ø19MM
HOLE
ø8.0000
65
155
20
50
150
125
100
50
50
50
50
100
ø22.5MM HOLE
ø16MM HOLE


AIPA-1908
FLOW METER

DIMENSION



TERMINAL DIAGRAM



ACCESSORIES DETAILS

Turbidity Flow Cell Inlet And Outlet Connection PU Push Fit With Pu6 Tube. Bottom Side Open able For Wash Or Clean Flow Cell.

Turbidity Flow Cell

Turbidity Calibration Cup To Calibrate Turbidity Sensor With Standard solution.

Turbidity Calibration Cupl

Turbidity Sample Flow Indicator [Rotameter] Range 0~27 LPH. Body Acrylic with Flow Control Valve. Connection Pu6 Push Fit Connection.

Turbidity Rotameter

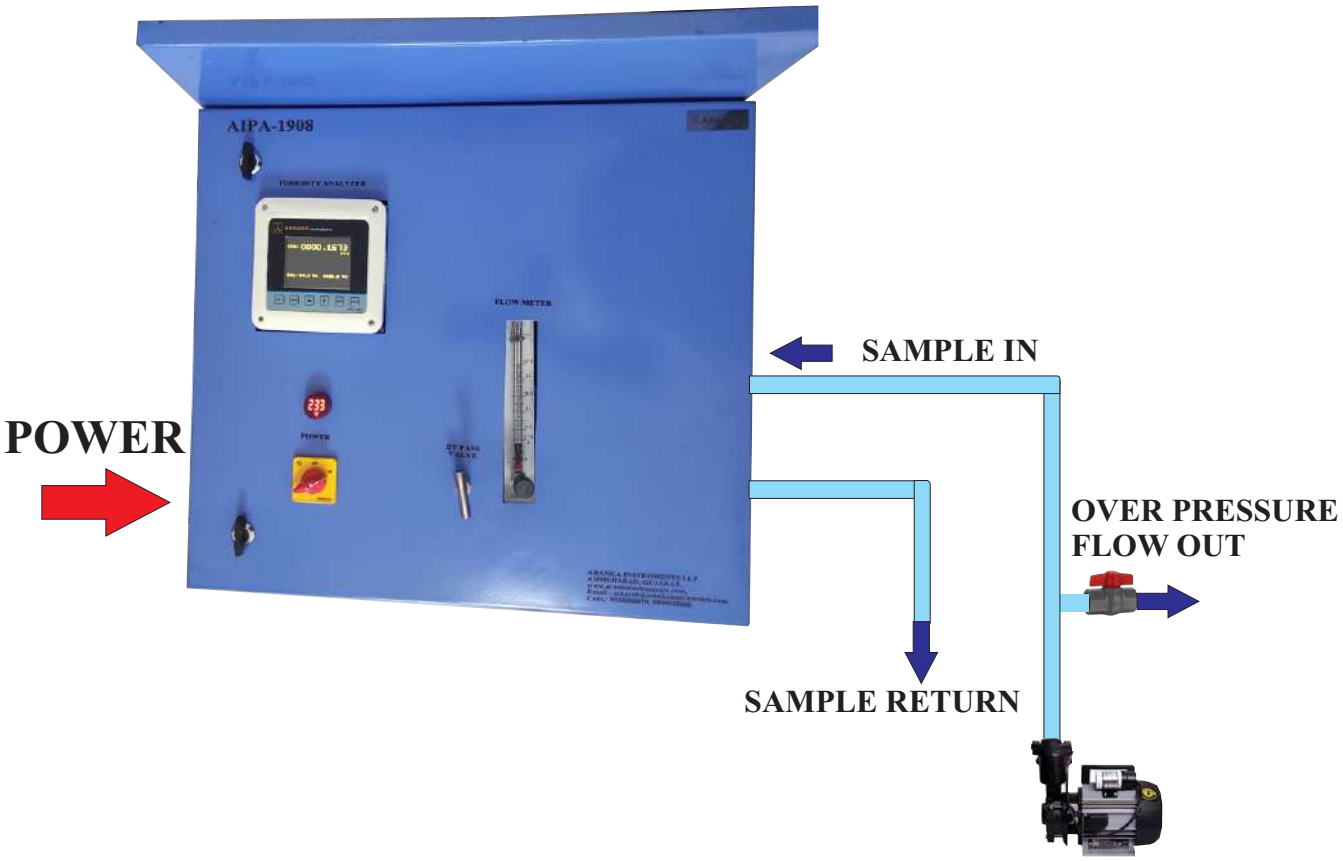
Tube For Sampling

Turbidity Sample Tube Pressure Capacity Max 10 Bar, Size Pu6 Transparent.

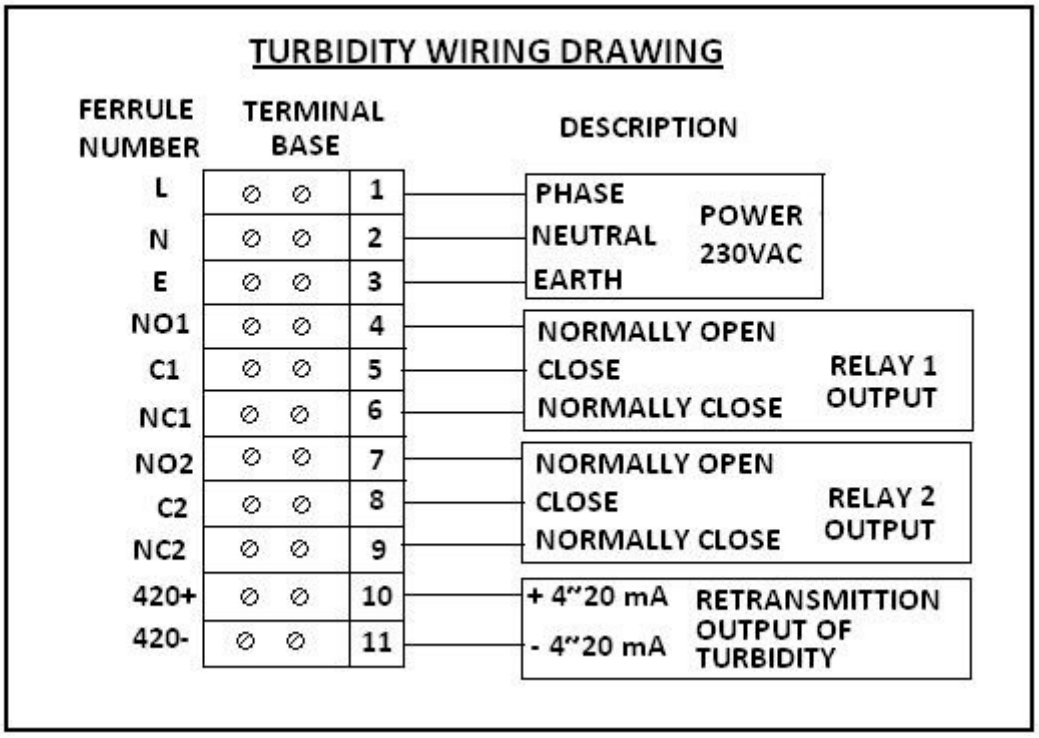
By Pass Valve

Turbidity Sampling By Pass Valve MOC S.S.316., Connection 1/4" BSP Female, Connector Pu6 Push Fit. Valve Type Needle Valve.

INSTALLATION DESIGN



TERMINAL DISCRIPTION



OPERATING INSTRUCTIONS

1) System Reading will Saturate after 30 minutes.

2) Sensor and Flow Cell Need to Clean Every 15 Days.

3) Solid Particle are not allow inside Sampling System.

4) Line Flow [Rotameter] Should Be with in 9 to 12 LPH.

5) Line Pressure Should not Increase More Than 20 PSIG.

6) System Power Must Be with in 100-~255VAC@50Hz.

7) System Earth must be Given.

8) System Earth must be less than 1VAC between Neutral and earth.

9) System Calibration Recommend Every 6 Month.

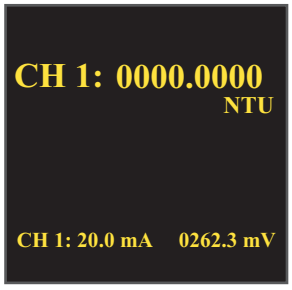
SPECIFICATIONS

TYPE	AIPA-1908
POWER	90~260VAC
DISPLAY	LCD
RANGE	0-40/0-400 / 0-4000 NTU
RESOLUTION	0.001NTU
LIGHT SOURCE	LED 880 nm
LIGHT RECEIVER	Photo Diode GaSe Type
Measuring Method	90 Degree Scattered
Calibration	Front key
Calibration Method	Slope Standard Method
5A RELAY OUTPUT 1	YES
5A RELAY OUTPUT 2	YES [OPTIONAL]
ANALOG OUTPUT	4~20mA
CONTROL	ON/OFF
COMMUNICATION	RS485 [OPTIONAL]
ANALYZER BODY	ALUMINIUM
Sensor MOC	Darlington Black
Flow Cell MOC	Darlington Black

KEY FUNCTIONS

SET	TO SET TDS CONTROLLING VALUE
MENU	TO ENTER CALIBRATION & DISPLAY OFFSET MODE
▲	TO INCREASE VALUE & IT WILL SCROLL 0 TO 9
▶	TO SHIFT DIGIT
ENT	TO SAVE DATA & ENTER TO NEXT SCREEN
BACK	EXIT FROM CURRENT DISPLAY

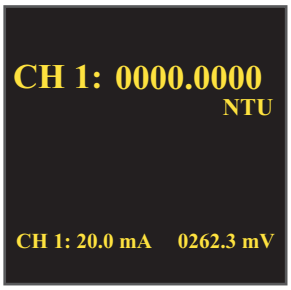
MAIN SCREEN



Shows Turbidity Reading Present Value in NTU

Shows Turbidity Retransmitting mA Output Value and Sensor Output Value.

SET POINT



PRESS

SET

PRESS

To Change Set Point & Hysterisis

CH 1-SET1 : TO SET RELAY SET POINT FOR RELAY ONE.
CH 1-HYS1 : TO SET RELAY HYSTARESIS FOR RELAY ONE.
CH 1-SET2 : TO SET RELAY SET POINT FOR RELAY TWO.
CH 1-HYS2 : TO SET RELAY HYSTARESIS FOR RELAY TWO.
CH 1-RELAY1: TO SET RELAY OPERATION ON/ OFF BEFORE SET VALUE OR AFTER
CH 1-RELAY2: TO SET RELAY OPERATION ON/ OFF BEFORE SET VALUE OR AFTER
ANALOG OP1 MIN : TO SET MINIMUM RANGE VALUE IN NTU FOR TURBIDITY 4~20mA OUTPUT
ANALOG OP1 MAX: TO SET MIXIMUM RANGE VALUE IN NTU FOR TURBIDITY 4~20mA OUTPUT

PRESS

To Increase Set Value Roll on From 0 to 9

PRESS

To Shift Digit to Roll Curser

PRESS

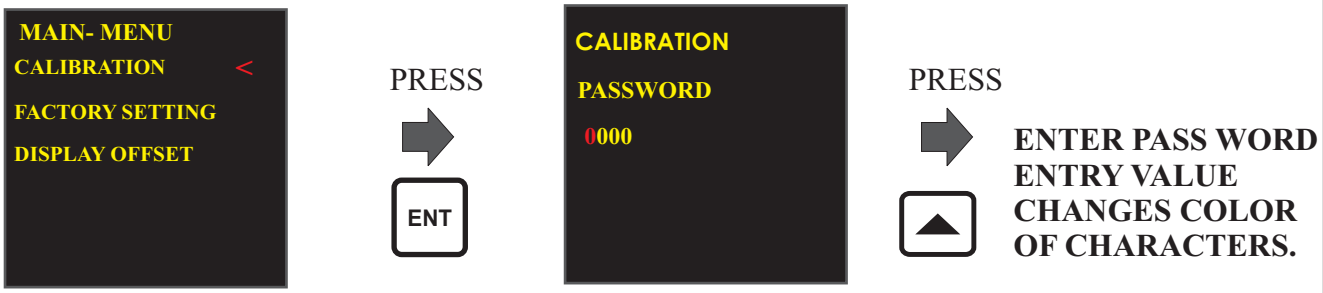
ENT **TO SAVE DATA & ENTER TO NEXT SCREEN**

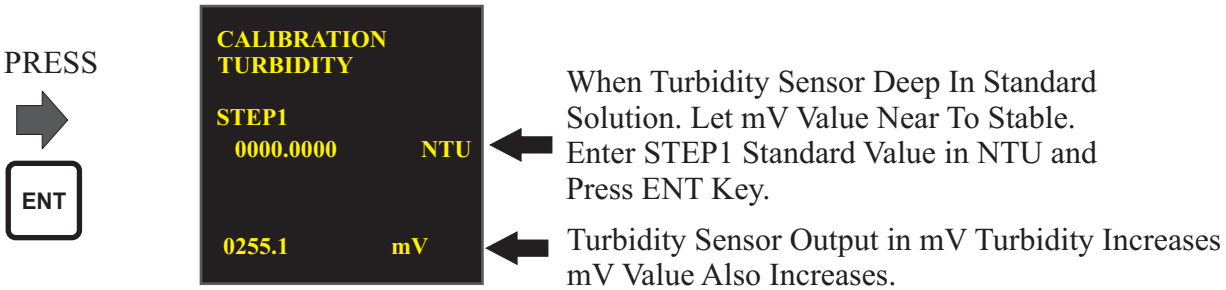
PRESS

BACK **EXIT FROM CURRENT DISPLAY**

CALIBRATION

MENU PRESS MENU BUTTON FOR 3 SEC. TO ENTER CALIBRATION SCREEN. SCREEN ASK FOR PASSWORD ENTER 5088 TO ENTER SCREEN





There are 10 Steps Calibration in Calibration Mode. you Can Do Calibrate Analyzer with Desire Number of steps. We Recommend Minimum 6 Steps For Better Accuracy. Calibration Must Be Done in Incremental Method.

Note: During Calibration When Standard Solution NTU increases mV will Increase. if you Found on Increase of NTU The mV are not Increase than Check Sensor Light Source or Cable Connection. if Light Source Life End Than Communicate to Company For New Sensor. STEP 1 Calibration Must Done with 0 or 0.02 NTU.

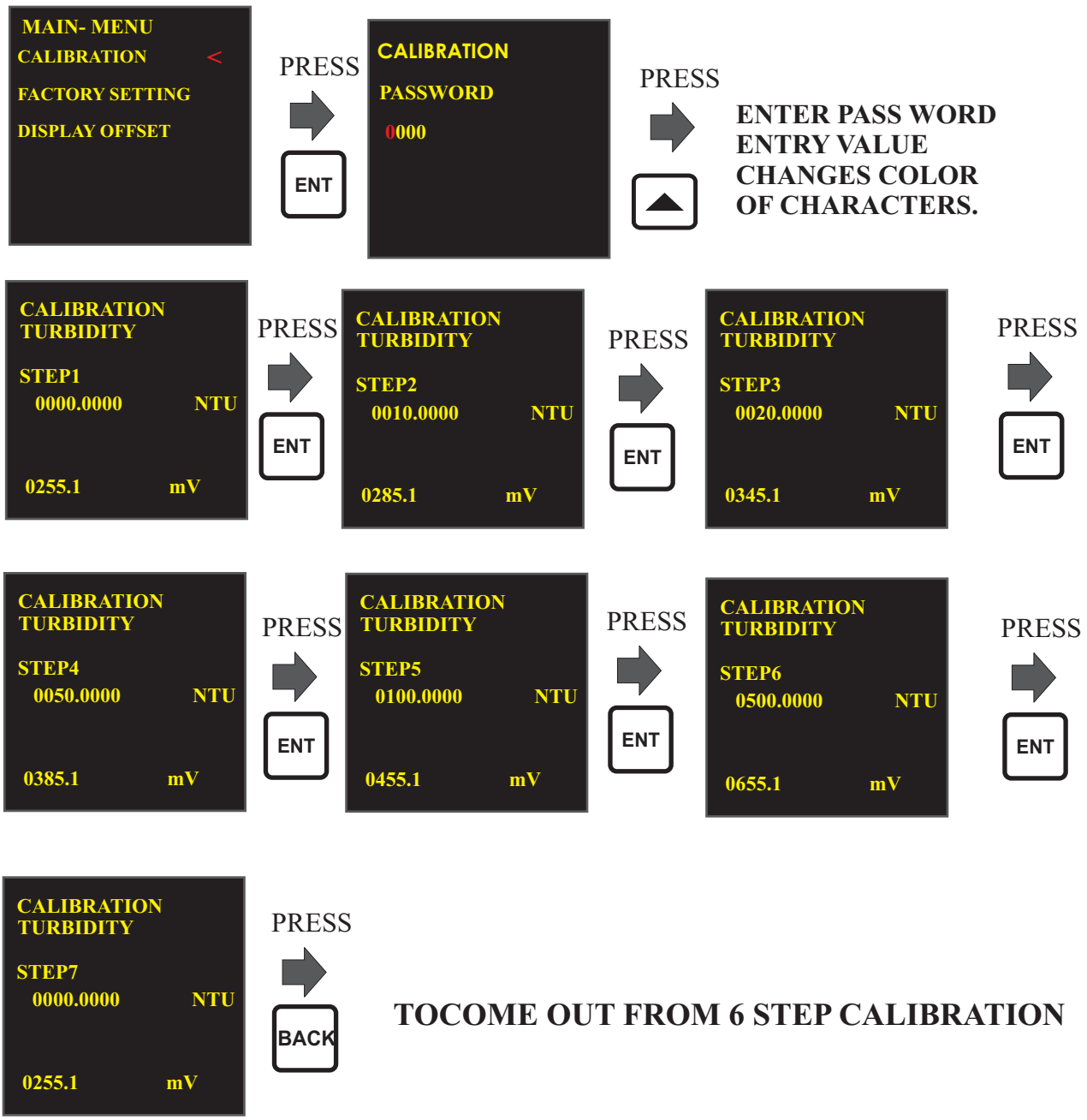
Calibration Example

STEP	TURBIDITY STANDARD SOLUTION VALUE
STEP1	0.00 NTU OR 0.02 NTU
STEP2	5.00 NTU OR 10.00 NTU
STEP3	15.00 NTU OR 20.00 NTU
STEP4	50.00 NTU
STEP5	100.00 NTU
STEP6	500.00 NTU

NOTE : ABOVE VALUE OF STEP 2 TO 6 ARE FOR EXAMPLE TO UNDERSTAND YOU CAN USE ANY KNOWN OR STANDARD SOLUTIONS YOU HAVE NEAR TO VALUE. MAKE SURE STEP1 MUST BE CALIBRATE WITH 0.00 OR 0.02 NTU.

To Escape or do calibration with less than STEP 10 than When Press BACK Key To Come Out. For Example you have 6 nos Standard Solution Than When you Completed STEP6 Screen Show STEP 7 Than Press BACK Key Main Screen will Come And Calibration will Completed.

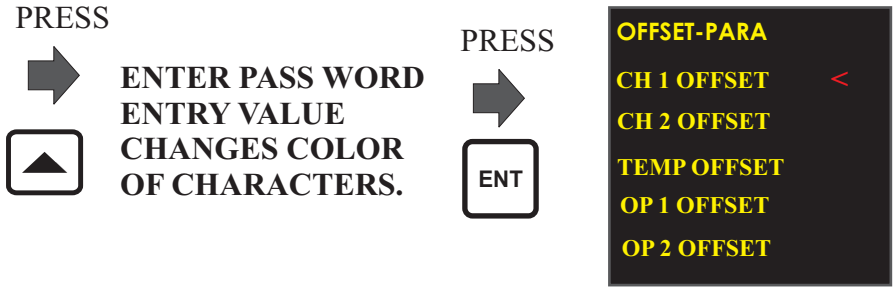
CALIBRATION PROCESS STEP EXAMPLE



DISPLAY OFFSET

MENU

PRESS MENU BUTTON FOR 3 SEC. TO ENTER DISPLAY OFFSET SCREEN. THIS SCREEN FUNCTION CAN USE FOR CORRECTION ANY DEVIATION REQUIRE AFTER CALIBRATION. SCREEN WILL ASK FOR PASSWORD ENTER 5678 TO ENTER SCREEN



CH 1 OFFSET : TO CORRECTION TURBIDITY VALUE ON CHANNEL 1.

CH 2 OFFSET : - NA -

TEMP OFFSET : - NA -

OP1 OFFSET : TO CORRECTION TURBIDITY RETRANSMISION 4~20mA OUTPUT.

OP2 OFFSET: - NA -

CH 1 OFFSET SCREEN

OP 1 OFFSET SCREEN

TROUBLE SHOOTING

- TURBIDITY IS NOT SHOWING PROPER
*** CLEAN SENSOR**

- TURBIDITY READING IS FLUCTUATING
*** CLEAN SENSOR, CHECK INTERFACE CABLE FROM INSTRUMENT TO SENSOR, CHECK SENSOR LIGHT SOURCE IS IT WORKING IF NOT THAN NEED NEW SENSOR.**

- TURBIDITY SENSOR mV ARE NOT CHANGING WITH TURBIDITY READING
*** CHECK SENSOR CONNECTION, SENSOR HAD FUSED**

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