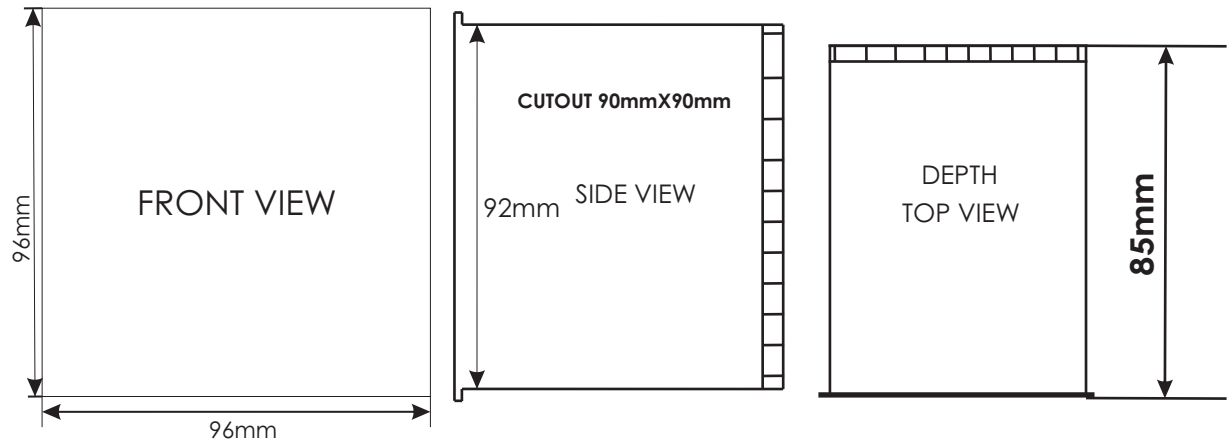


MENU

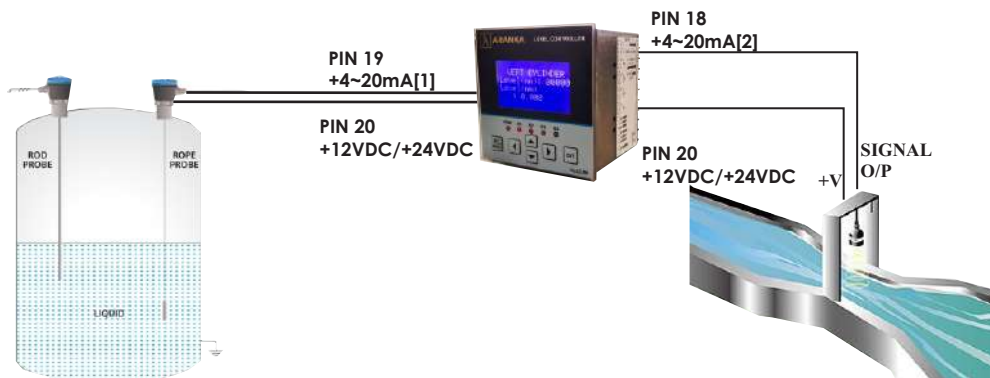
- 1) DIMENSION
- 2) TERMINAL DIAGRAM
- 3) SPECIFICATION
- 4) KEY FUNCTION
- 5) SELECT TANK TYPE
- 6) SENSOR INPUT
- 7) SCALING
- 8) CALIBRATION
- 9) RELAY SETPOINT
- 10) UNIT SELECTION
- 11) ANALOG OUTPUT
- 12) OTHERS

DIMENSION

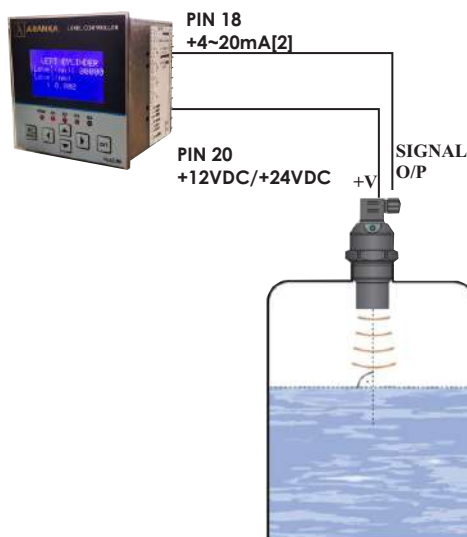


TERMINAL DIAGRAM

WIRING CONNECTION FOR DUAL CHANNEL WATER LEVEL SENSOR



WIRING CONNECTION FOR WATER CONTACT LESS LEVEL SENSOR



TERMINAL DISCRIPTION

- 1 L [90~260VAC]
- 2 N [90~260VAC]
- 3 NO [RELAY 4]
- 4 C [RELAY 4]
- 5 NO [RELAY 3]
- 6 C [RELAY 3]
- 7 NO [RELAY 2]
- 8 C [RELAY 2]
- 9 NO [RELAY 1]
- 10 C [RELAY 1]
- 11 +4~20mA[Ch1 OUTPUT]
- 12 -4~20mA [Ch1 OUTPUT]
- 13 +4~20mA[Ch2 OUTPUT]
- 14 -4~20mA [Ch2 OUTPUT]
- 15
- 16 -NIL-
- 17 GND/-4~20mA[4~20mA INPUT FROM LEVEL SENSOR]
- 18 +4~20mA [2][4~20mA INPUT FROM FLOW SENSOR]
- 19 + 4~20mA [1][4~20mA INPUT FROM LEVEL SENSOR]
- 20 +12VDC /+24VDC [OUTPUT] [EXTERNAL POWER FOR SENSOR]
- 21 -NA-
- 22 -NA-
- 23 -NA-
- 24 -NA-
- 25 -NA-
- 26 -NA-
- 27 -NA-
- 28 -NA-
- 29 RS485 + [COMMUNICATION OPTIONAL]
- 30 RS485 - [COMMUNICATION OPTIONAL]

SPECIFICATIONS

POWER : 90VAC ~260VAC

INPUT : 4~20mA 2 CHANNEL

RANGE : SCALABLE

DISPLAY : LCD [16X4]

DIGITAL OUTPUT : 4 NOS. 3A RELAY 1CO.

ANALOG OUTPUT : 4~20mA [RETRANSMISSION]

CALIBRATION : FRONT KEY

CURRENT CONSUMPTION : 55mA AC

KEY FUNCTIONS



PRESS & HOLD FOR 3 SEC. SET/BACK KEY TO ENTER IN MENU
FOR BACK TO MAIN SCREEN



TO SHIFT CURSER LEFT



TO INCREMENT CURSER / NUMERIC



TO DECREMENT CURSER / NUMERIC



TO SHIFT CURSER RIGHT



TO STORE DATA OR CHANGES

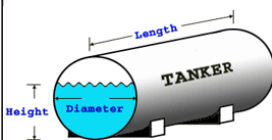
SELECT TANK TYPE

PRESS SET/ BACK KEY AND HOLD FOR 3 SECONDS.THE SCREEN WILL SHOW AS BELOW

>TANK TYPE
SENSOR TYPE
SCALING
CALIBRATION

NOW PRESS ENT KEY THE SCREEN WILL SHOW AS BELOW

>HORZ CYLINDER
VERT CYLINDER
RECTANGLE TANK
HORIZONTAL OVAL



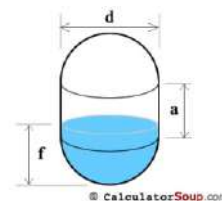
VERTICAL OVAL
>HORZ CAPSULE
VERT CAPSULE
MANUAL ENTRY



HORZ CYLINDER
>VERT CYLINDER
RECTANGLE TANK
HORIZONTAL OVAL



VERTICAL OVAL
HORZ CAPSULE
>VERT CAPSULE
MANUAL ENTRY



HORZ CYLINDER
VERT CYLINDER
>RECTANGLE TANK
HORIZONTAL OVAL



VERTICAL OVAL
HORZ CAPSULE
VERT CAPSULE
>MANUAL ENTRY

HORZ CYLINDER
VERT CYLINDER
RECTANGLE TANK
>HORIZONTAL OVAL



>VERTICAL OVAL
HORZ CAPSULE
VERT CAPSULE
MANUAL ENTRY



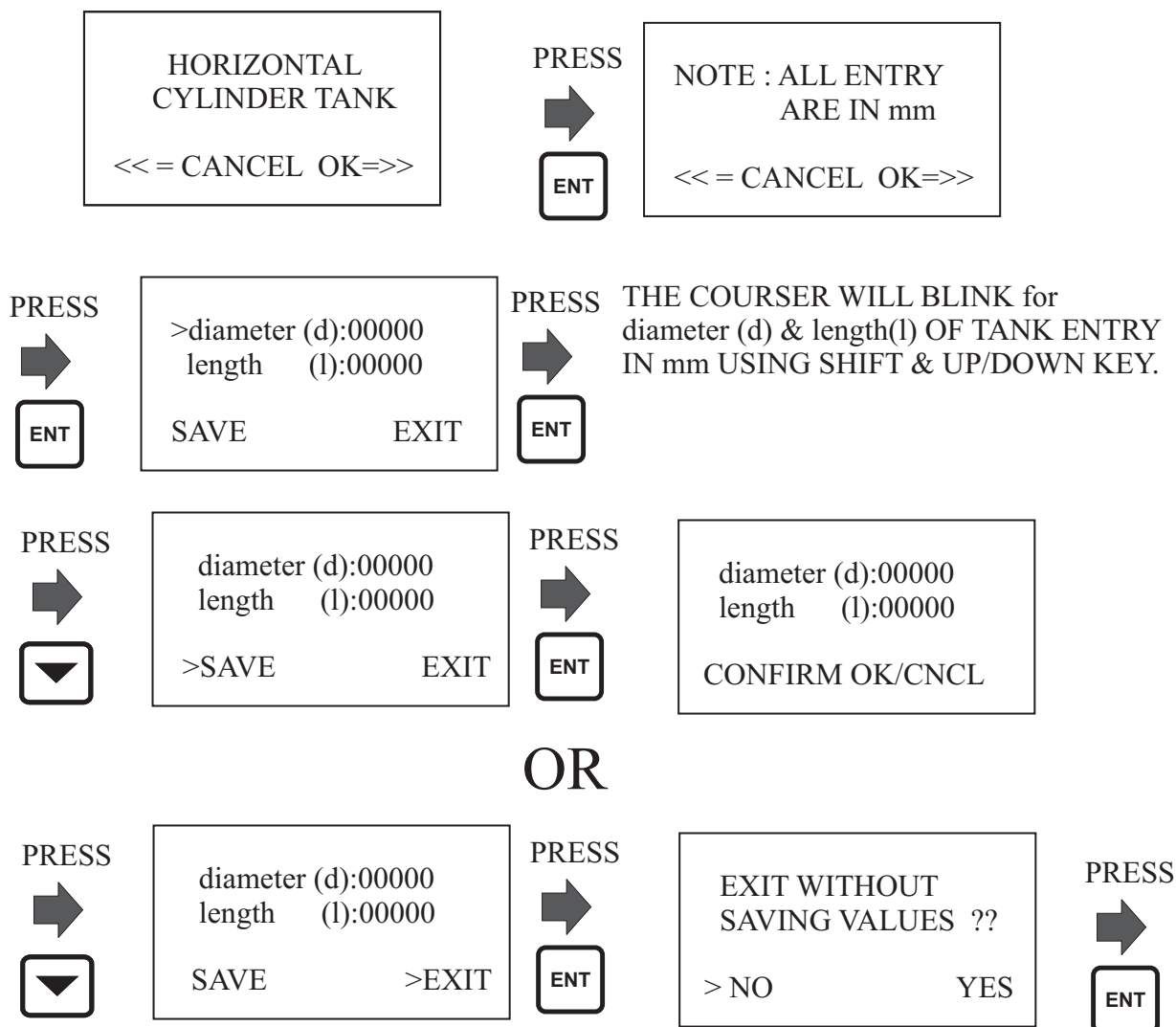
*** DESCRIPTION OF ALL LEVEL TANK**

- 1) HORZ CYLINDER : HORIZONTAL CYLINDER TANK
- 2) VERT CYLINDER : VERTICAL CYLINDER TANK
- 3) RECTANGLE TANK : RECTANGLE TANK
- 4) HORIZONTAL OVAL : OVAL HORIZONTAL TANK
- 5) VERTICAL OVAL : OVAL VERTICAL TANK
- 6) HORZ CAPSULE : CAPSULE TYPE HORIZONTAL TANK
- 7) VERT CAPSULE : CAPSULE TYPE VERTICAL TANK
- 8) MANUAL ENTRY : MANUAL ENTRY FOR UNEVEN TANK FOR CALIBRATION

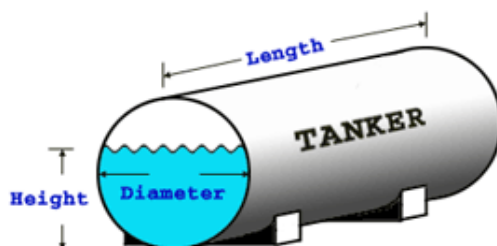
LEVEL ENTRY FOR TANK TYPE

1) HORZ CYLINDER

IF YOU SELECT HORZ CYLINDER THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW

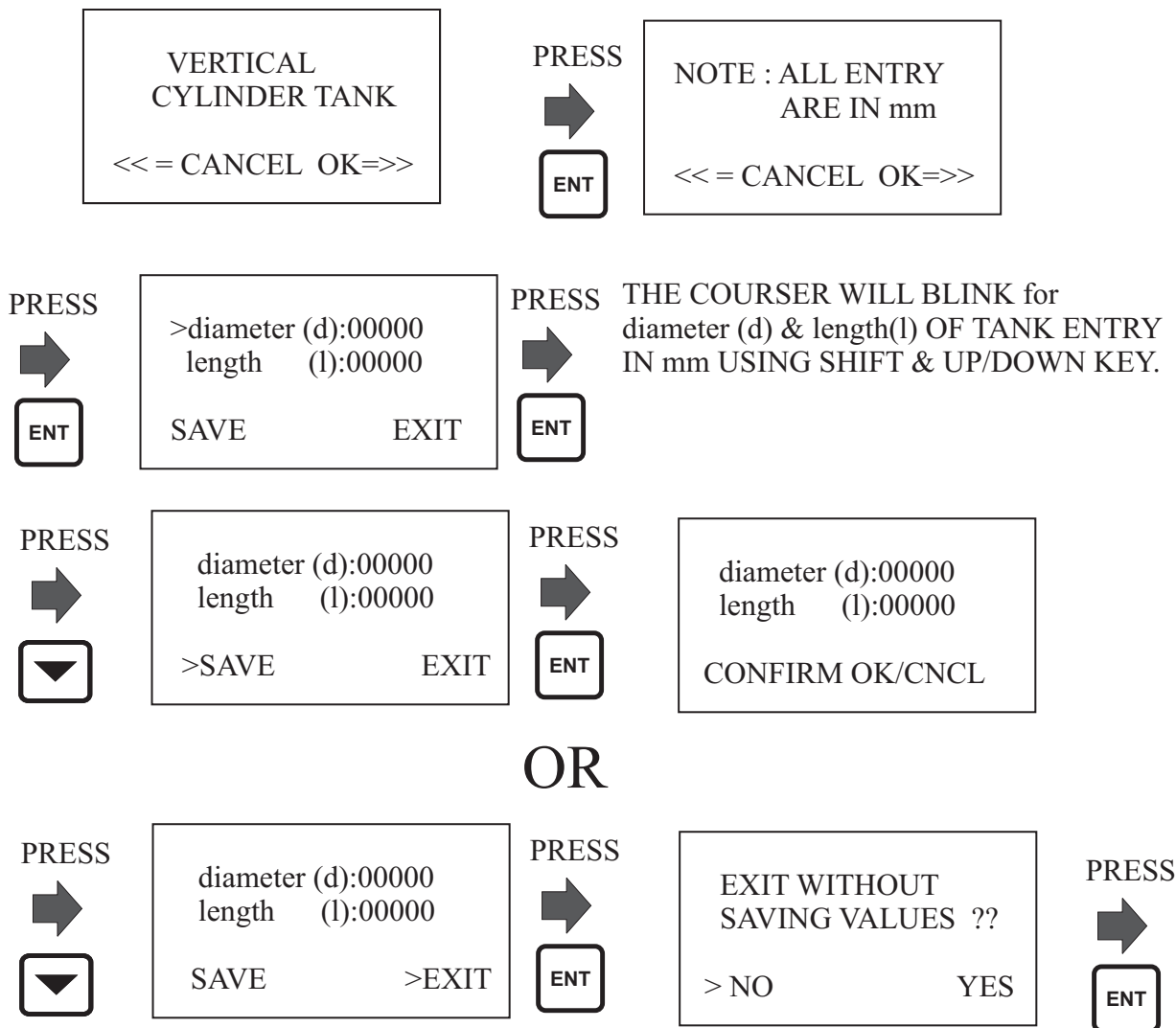


MAIN SCREEN WILL DISPALY



2) VERT CYLINDER

IF YOU SELECT VERTICAL CYLINDER THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW

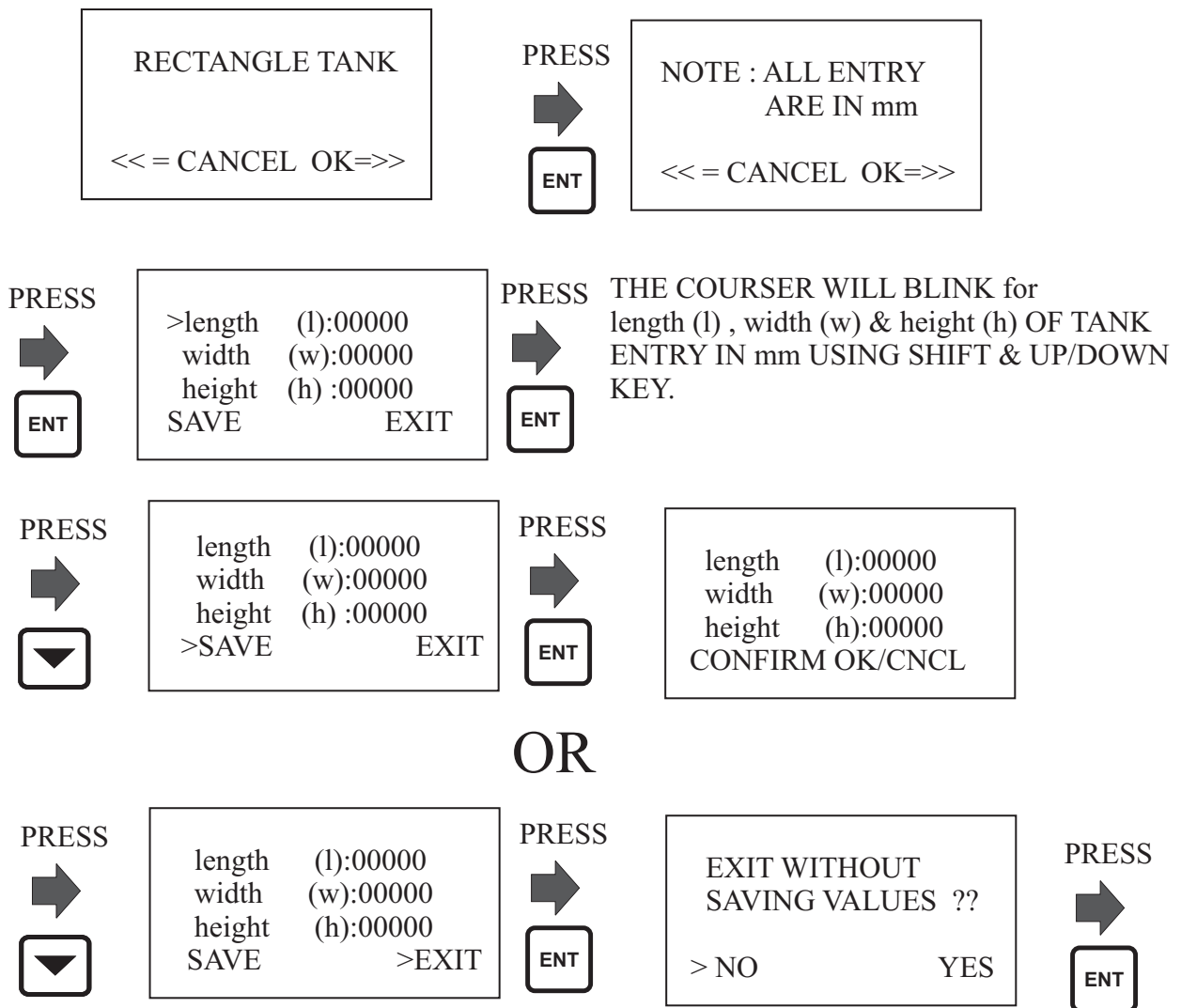


MAIN SCREEN WILL DISPALY



3) RECTANGLE TANK

IF YOU SELECT RECTANLE TANK THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW

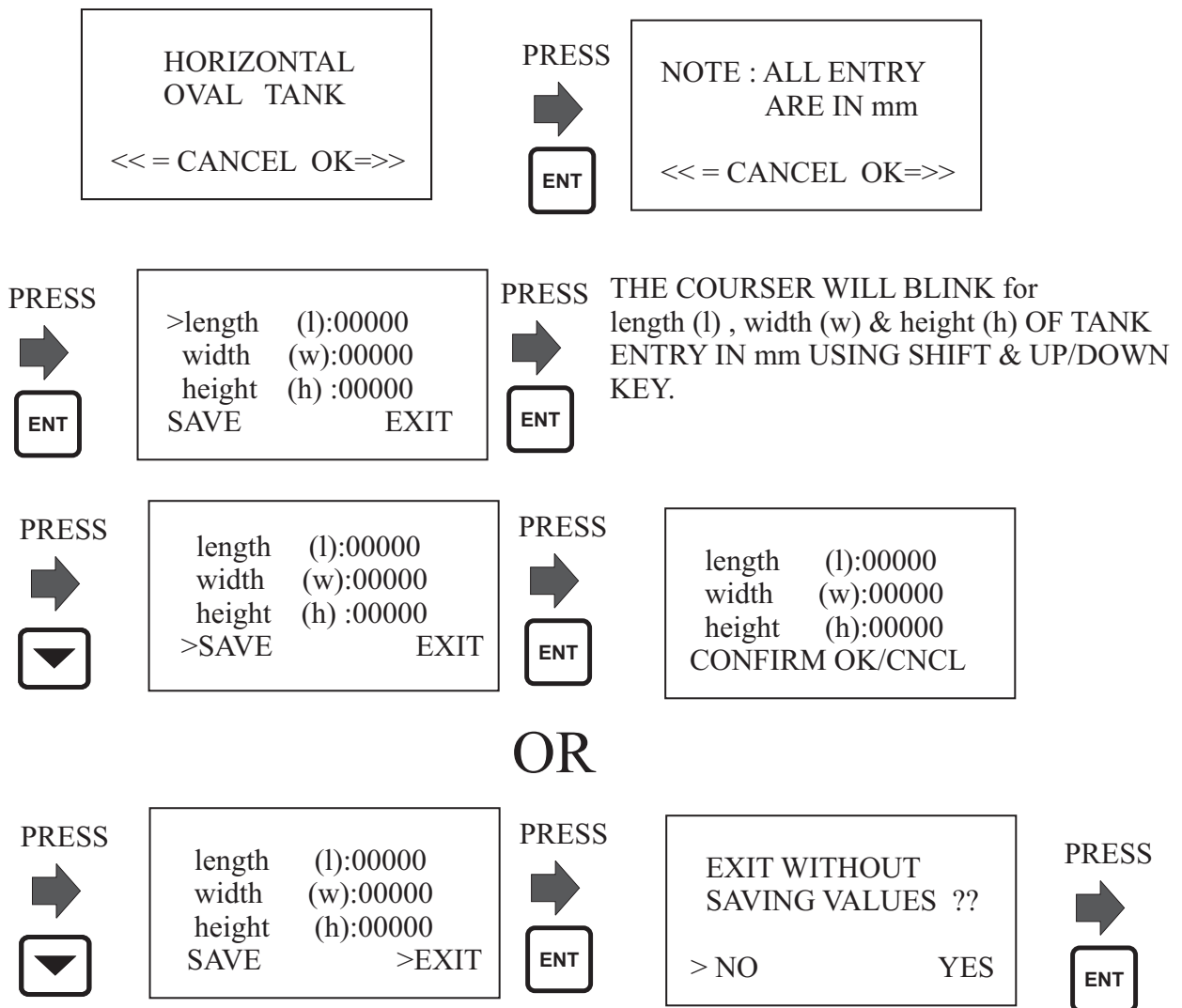


MAIN SCREEN WILL DISPALY



4) HORIZONTAL OVAL

IF YOU SELECT HORIZONTAL OVAL TANK THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW

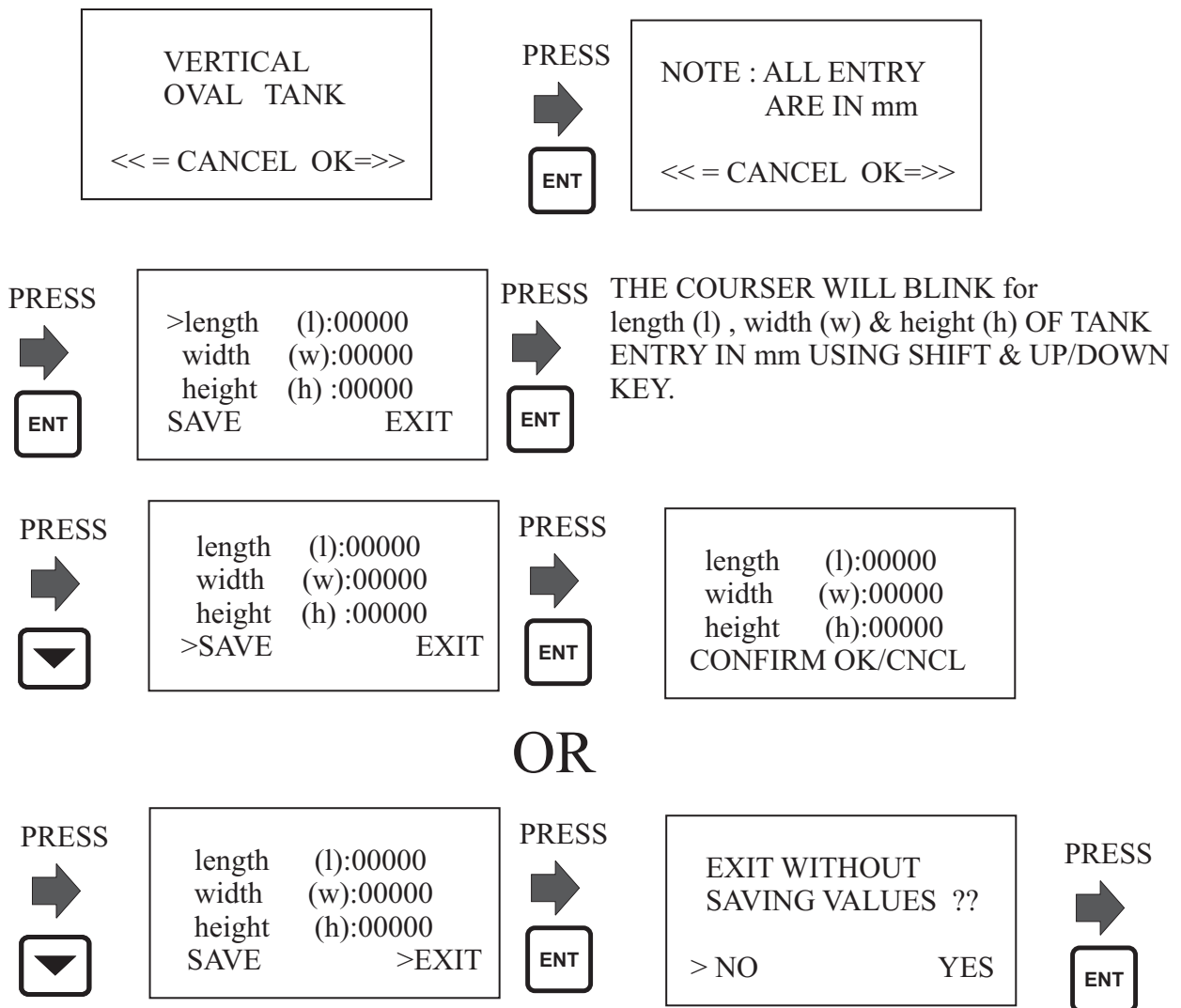


MAIN SCREEN WILL DISPALY



5) VERTICAL OVAL

IF YOU SELECT VERTICAL OVAL TANK THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW

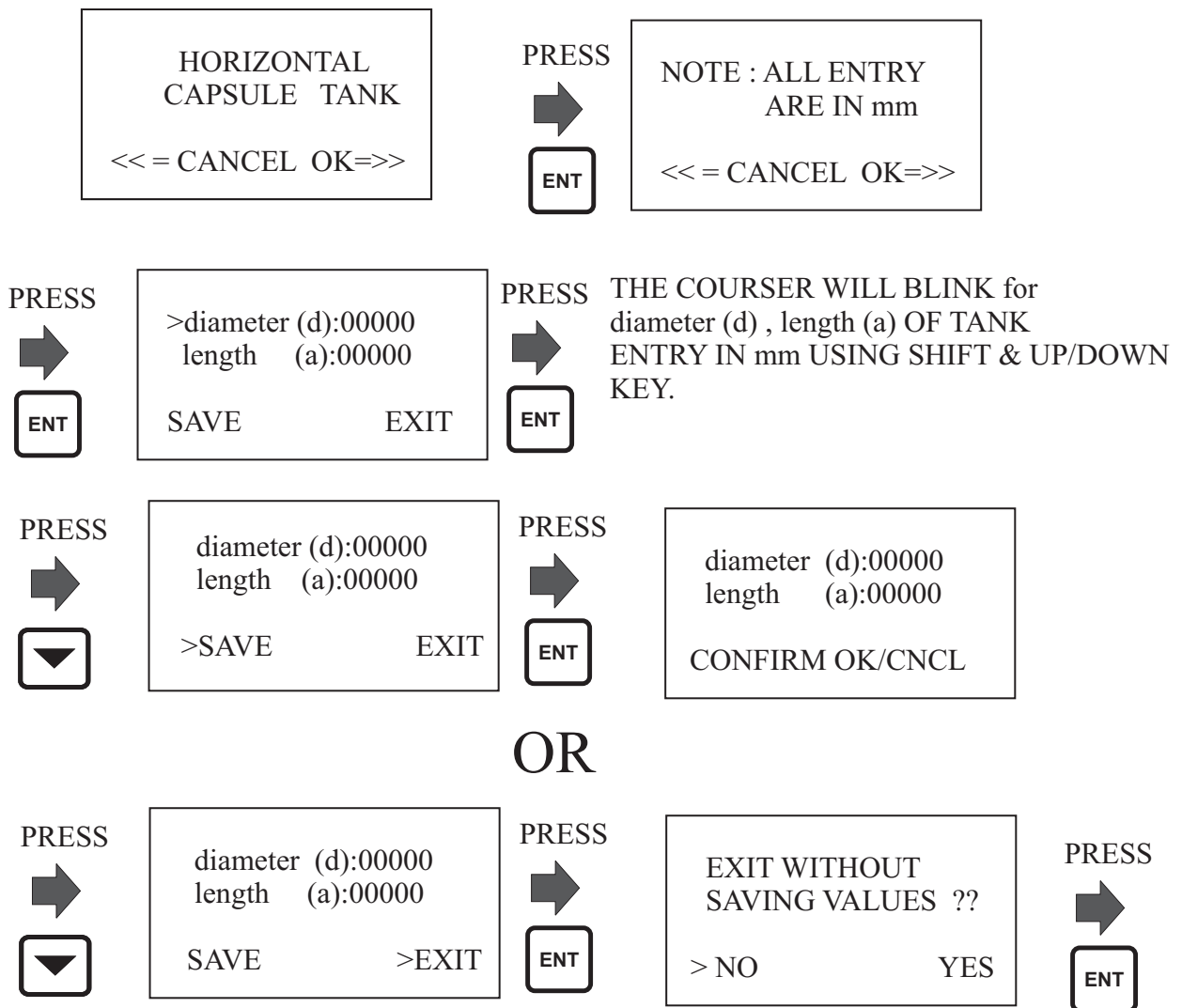


MAIN SCREEN WILL DISPALY



6) HORZ CAPSULE

IF YOU SELECT HORIZONTAL CAPSULE TANK THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW

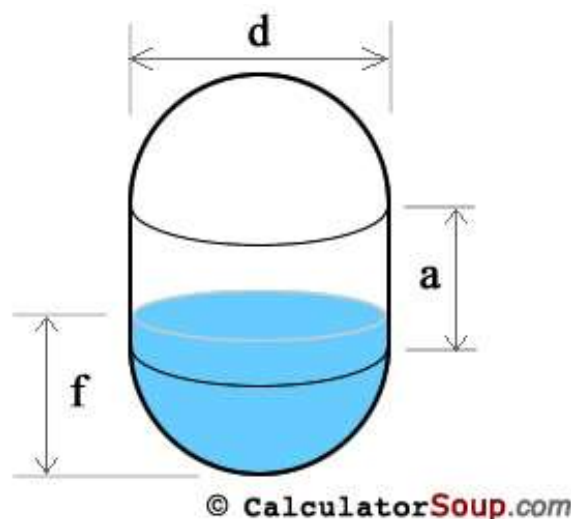
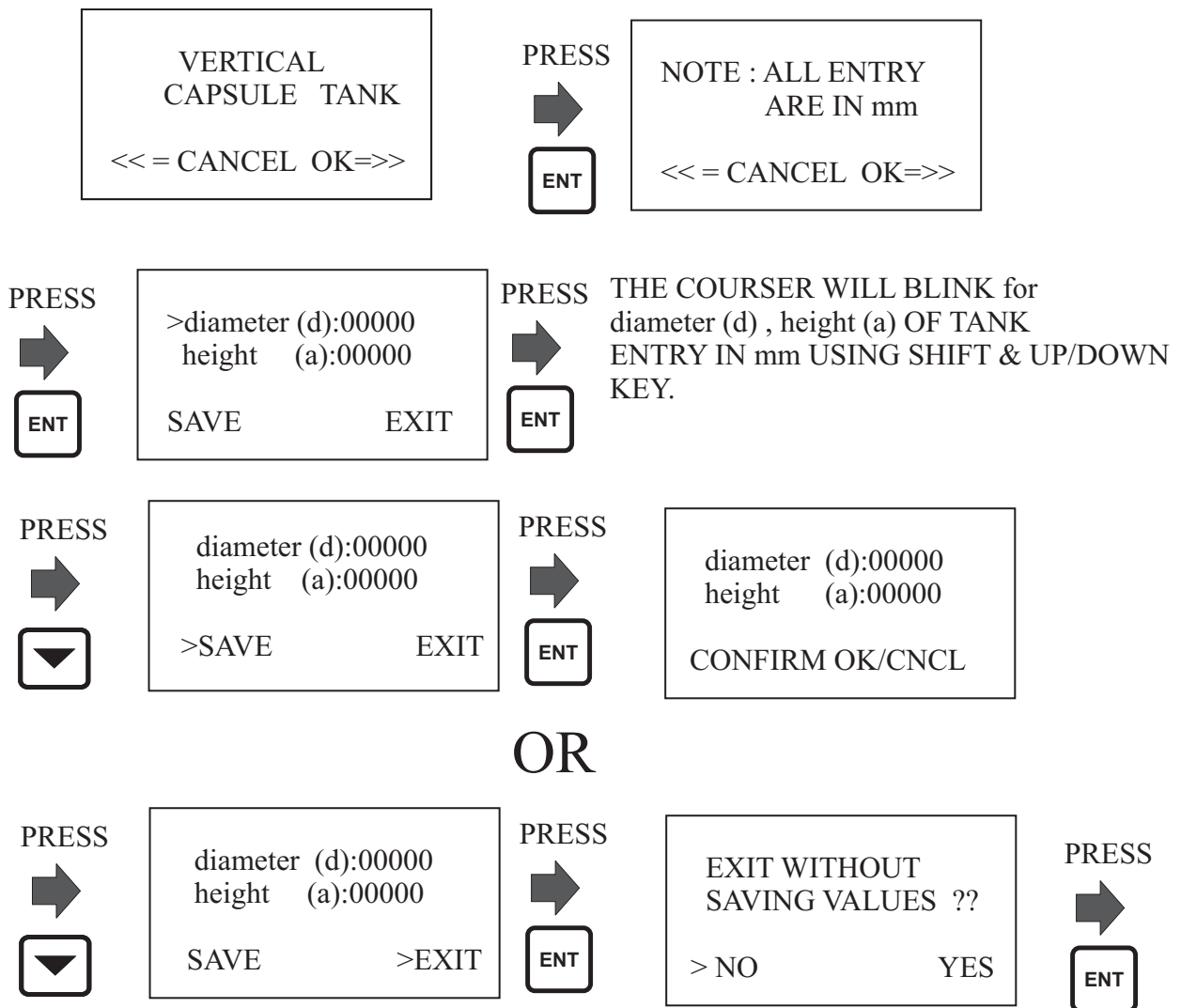


MAIN SCREEN WILL DISPALY



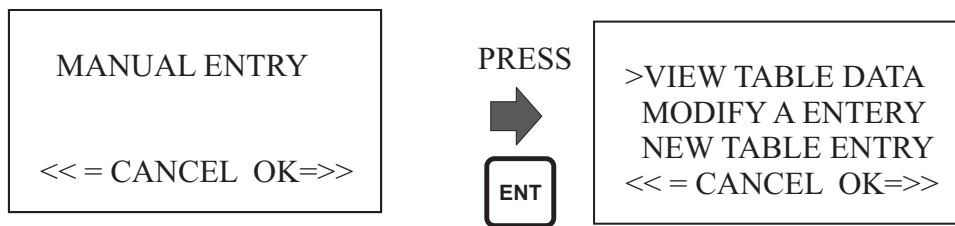
7) VERT CAPSULE

IF YOU SELECT VERTICAL CAPSULE TANK THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW



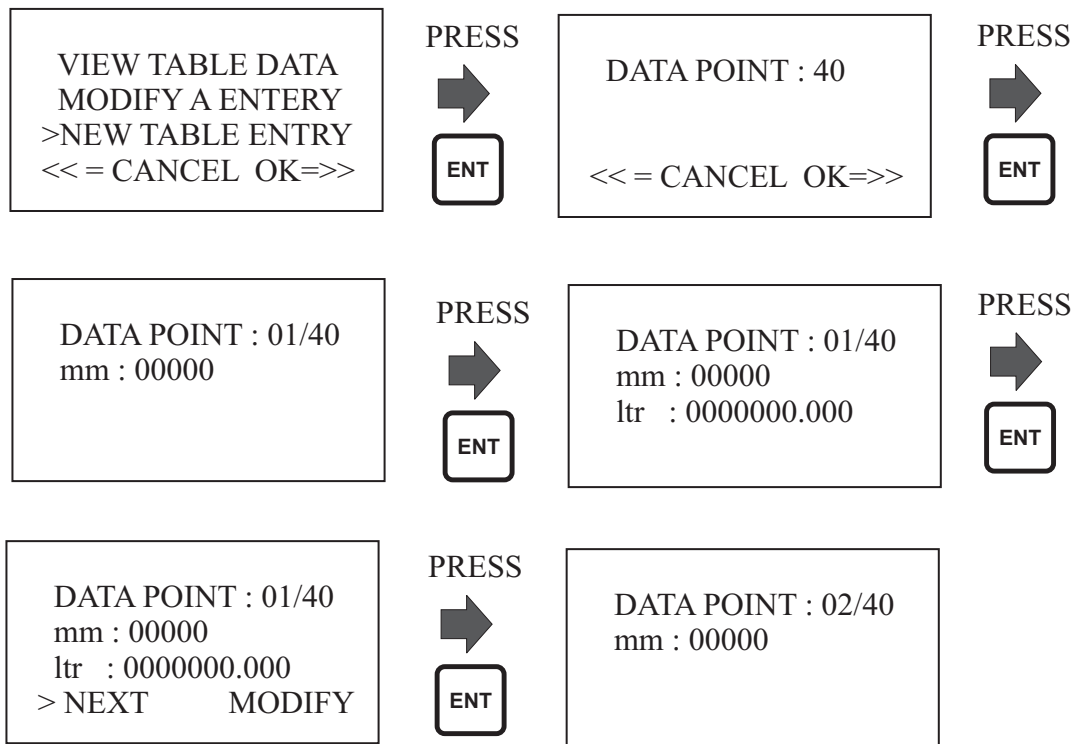
8) MANUAL ENTRY

IF YOU SELECT MANUAL ENTRY THAN PRESS ENT KEY THE SCREEN SHOW AS BELOW



- 1) VIEW TABLE DATA : IT WILL SHOW YOUR OLD DATA POINT CALIBRATION VALUE
- 2) MODIFY A ENTRY : YOU CAN MODIFY OLD DATA VALUE
- 3) NEW TABLE ENTRY : YOU CAN CREATE NEW CALIBRATION DATA FOR TANK

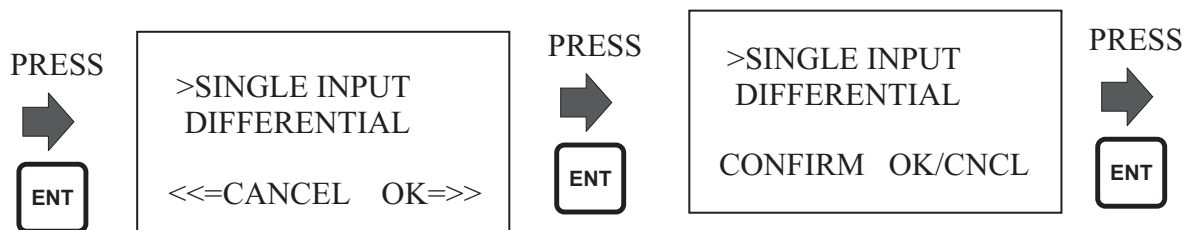
YOU CAN SELECT OR MODIFY AS PER YOUR REQUIREMENT. HE MAX DATA STAGES CAN BE TAKEN 40 NOS. WHERE SCREEN WILL SHOW AS BELOW



SO YOU CAN STORE MAX DATA 40 STAGES.

SENSOR TYPE

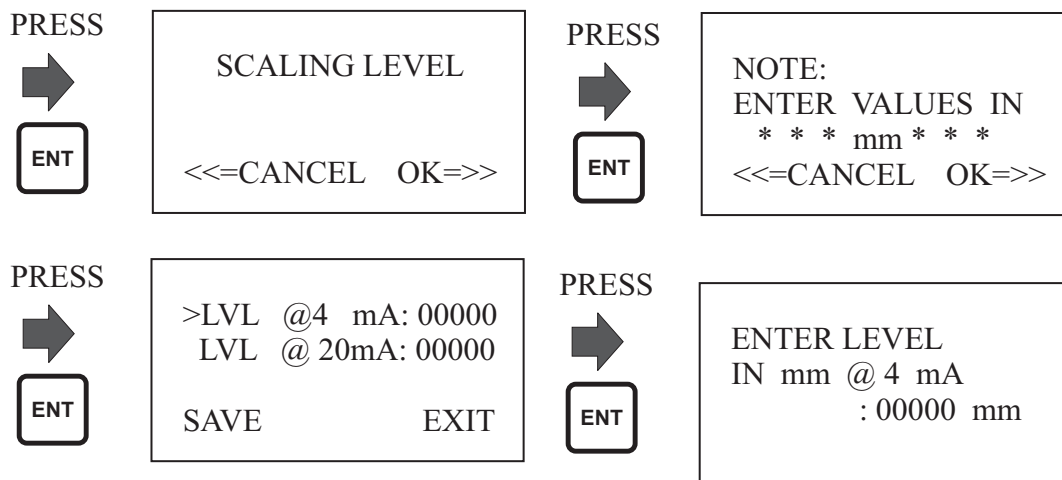
IN THIS MODE YOU CAN SELECT SENSOR INPUT



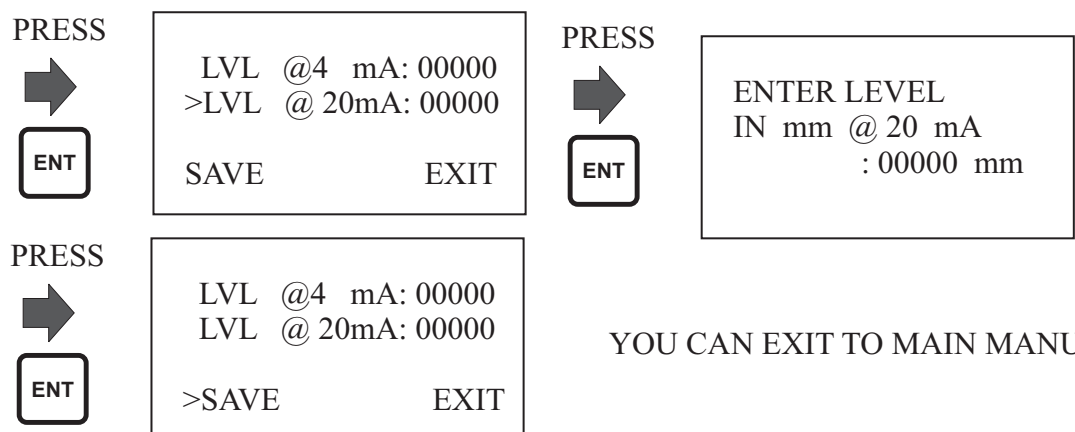
- * AFTER PRESSING ENT KEY YOU WILL COME TO MAIN MANU
LEVEL SENSOR IN METERS
- * DIFFERENTIAL INPUT IS USE FOR DUAL LEVEL MEASURING WITH
MONITORING DIFFERENCE BETWEEN TWO LEVEL

SCALING

IN THIS MODE YOU CAN SCALE LEVEL SENSOR AS PER REQUIREMENT



FOR SCALE 20mA



IN THIS MODE YOU CAN SCALE DIFFERENTIAL LEVEL FOR TWO SENSOR
AS PER REQUIREMENT

PRESS



>SCALING SENSOR+
SCALING SENSOR-

<<=CANCEL OK=>>

PRESS



SCALING SENSOR+

<<=CANCEL OK=>>

PRESS



NOTE:
ENTER VALUES IN
* * * mm * * *
<<=CANCEL OK=>>

PRESS



>LVL @4 mA: 00000
LVL @ 20mA: 00000

SAVE

EXIT

PRESS



ENTER LEVEL
IN mm @ 4 mA
: 00000 mm

FOR SCALE 20mA

PRESS



LVL @4 mA: 00000
>LVL @ 20mA: 00000

SAVE

EXIT

PRESS



ENTER LEVEL
IN mm @ 20 mA
: 00000 mm

PRESS



LVL @4 mA: 00000
LVL @ 20mA: 00000

>SAVE

EXIT

AS ABOVE YOU CAN ALSO SCALE SECOND LEVEL SENSOR

CALIBRATION

IN THIS MODE TO USE CALIBRATION OF LEVEL SENSOR

PRESS



>VIEW CAL_VALUES
RUN CALIBRATION
LEVEL OFFSET
<<=CANCEL OK=>>

- 1) VIEW CAL VALUES : IT WILL SHOW CALIBRATION VALUE
[FACTORY SIDE TO ANALYSIS]
- 2) RUN CALIBRATION : TO CALIBRATE LEVEL INPUT SIDE [4~20mA]
- 3) LEVEL OFFSET : TO MAKE OFFSET FOR LEVEL VALUE IN MEASUREMENT
& VOLUME SIDE

RUN CALIBRATION MODE

PRESS



VIEW CAL_VALUES
> RUN CALIBRATION
LEVEL OFFSET
<<=CANCEL OK=>>

PRESS



NOTE:
LEVEL VALUES ARE
IN * * * mm * * *
<<=CANCEL OK=>>

PRESS



INPUT 4 mA &
THEN PRESS OK
<<=CANCEL OK=>>

GIVE INPUT 4 mA USING CALIBRATOR
AND THAN PRESS ENT KEY

PRESS



INPUT : 4 mA
LEVEL : 00000 mm
ADC: 0010, mV: 0000
<<=CANCEL OK=>>

PRESS



INPUT 20 mA &
THEN PRESS OK
<<=CANCEL OK=>>

GIVE INPUT 20 mA USING CALIBRATOR
AND THAN PRESS ENT KEY

PRESS



INPUT : 20 mA
LEVEL : 00000 mm
ADC: 0010, mV: 0000
<<=CANCEL OK=>>

PRESS



SAVE CALIBRATION

>SAVE EXIT

CALIBRATION

LEVEL OFFSET MODE

PRESS



ENT

VIEW CAL_VALUES
RUN CALIBRATION
>LEVEL OFFSET
<<=CANCEL OK=>>

PRESS



ENT

>HEIGHT mm OFFSET
VOLUME ltr OFST
<<=CANCEL OK=>>

HEIGHT OFFSET

PRESS



ENT

NOTE : VALUE OF
OFFSET IS IN
* * * mm * * *
<<=CANCEL OK=>>

PRESS



ENT

HEIGHT OFFSET
: + 0000 mm
>BACK MODIFY

BY SELECTING MODIFY YOU CAN ENTER HEIGHT OFFSET OR IF YOU DON'T WANT ANY CHANGE THAN SELECT BACK TO PREVIOUS SCREEN. THE SAME PROCESS YOU HAVE TO FOLLOW TO MAKE OFFSET FOR VOLUME OFFSET.

PRESS



ENT

HEIGHT mm OFFSET
>VOLUME ltr OFST
<<=CANCEL OK=>>

VOLUME OFFSET

PRESS



ENT

NOTE : VALUE OF
OFFSET IS IN
* * * ltr * * *
<<=CANCEL OK=>>

PRESS



ENT

VOLUME OFFSET
: + 0000 ltr
>BACK MODIFY

RELAY SET POINT

>RELAY SET POINT
UNIT SELECTION
ANALOG OUTPUT
OTHERS

PRESS



ENT

>CONFIGURE SP 1
CONFIGURE SP 2

PRESS



ENT

>SP 1 : ENABLED
REL FOR SP 1 : R1
SP1 : mm BASED
SP & HYST VALUE

TO ENABLE OR DISABLE SETPOINT 1

PRESS



ENT

* SETPOINT 1 *
ENABLE
DISABLE
<<=CANCEL OK=>>

TO SELECT RELAY OPERATION FOR SET POINT 1 OR SET POINT 2

PRESS



ENT

SP 1 : ENABLED
>REL FOR SP 1 : R1
SP1 : mm BASED
SP & HYST VALUE

PRESS



ENT

ASSIGNED RELAY
FOR SETPOINT 1
: RELAY 1
<<=CANCEL OK=>>

PRESS



ENT

ASSIGNED RELAY
FOR SETPOINT 1
: RELAY 1
CONFIRM OK/CNCL

PRESS



ENT

TO OPERATE Sp1 ON MEASUREMENT [mm] BASED OR VOLUME BASED

PRESS



ENT

SP 1 : ENABLED
REL FOR SP 1 : R1
>SP1 : mm BASED
SP & HYST VALUE

PRESS



ENT

* SETPOINT 1 *
> mm CONTROLLED
ltr CONTROLLED
<<=CANCEL OK=>>

RELAY SET POINT

PRESS



ENT

* SETPOINT 1 *
> mm CONTROLLED
ltr CONTROLLED
CONFIRM OK/CNCL

SP 1: ENABLED
REL FOR SP 1 : R1
SP 1: mm BASED
> SP & HYST VALUE

PRESS



ENT

NOTE : ENTER VALUE
OF S/P & HYST IN
* * * mm * * *
<<=CANCEL OK=>>

>SP 1: 00010 mm
LEVEL < SP, REL ON
HYST : 00040 mm
SAVE EXIT

ENTER SET POINT SP1 TO CONTROL DESIRE
CONTROL LEVEL.

LEVEL< SPE, REL ON IS USE
TO SELECT TO MAKE RELAY ON BEFORE SET
POINT OF AFTER SET POINT.

HYST IS TO MAKE HYSTERISIS IN RELAY
OPERATION

SP 1: 00010 mm
LEVEL < SP, REL ON
HYST : 00040 mm
>SAVE EXIT

PRESS



ENT

SP 1: 00010 mm
LEVEL < SP, REL ON
HYST : 00040 mm
CONFIRM OK/CNCL

PRESS



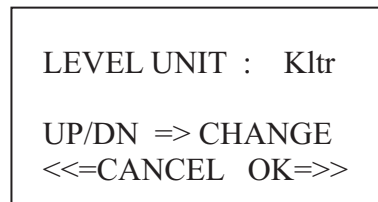
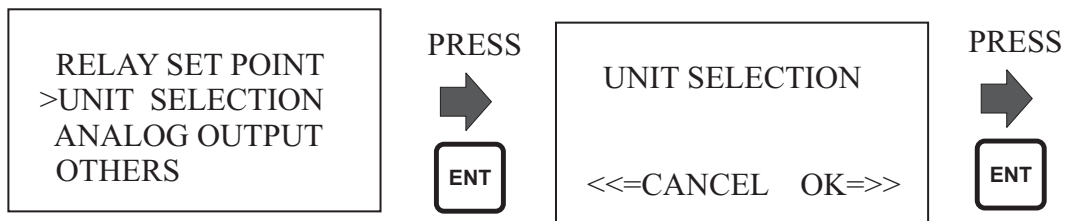
ENT

TO SET GET BACK TO PREVIOUS SCREEN

CONFIGURE SP 1
>CONFIGURE SP 2

SAME CONFIGURATION WILL APPLY TO CONFIGURE 2 SP2

UNIT SELECTION

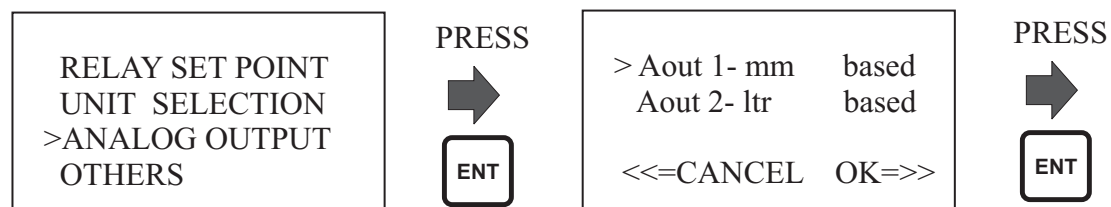


*AS PER ABOVE SCREEN YOU CAN SELECT CURRENT LEVEL MEASURING UNIT USING UP DOWN KEY

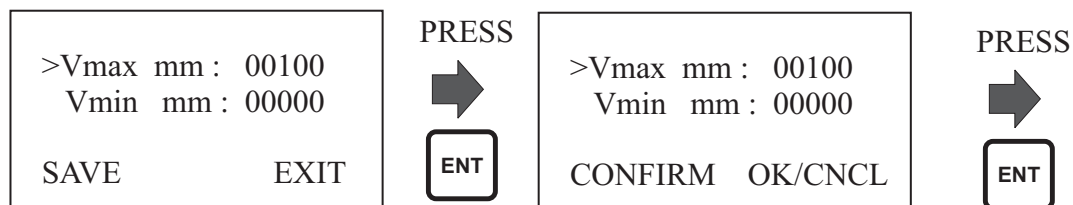
MEASUREMENT UNIT
mtr / ft / Inch/ cm / mm

VOLUME UNIT
Kltr / ltr / ml

ANALOG OUTPUT



*AS PER ABOVE SCREEN YOU CAN ENTER ANALOG OUTPUT SCALE TO GET 4~20mA AS PER DESIRE FOR MEASUREMENT & VOLUME



TO SET GET BACK TO PREVIOUS SCREEN

ANALOG OUTPUT

Aout 1- mm based
> Aout 2- ltr based

<<=CANCEL OK=>>

PRESS



>Vmax ltr : 00100
Vmin ltr : 00000

SAVE EXIT

PRESS



>Vmax ltr : 00100
Vmin ltr : 00000

CONFIRM OK/CNCL

TO SET GET BACK TO PREVIOUS SCREEN

OTHERS [USE FOR FACOTRY USE ONLY]

UNIT SELECTION
ANALOG OUTPUT
>OTHERS

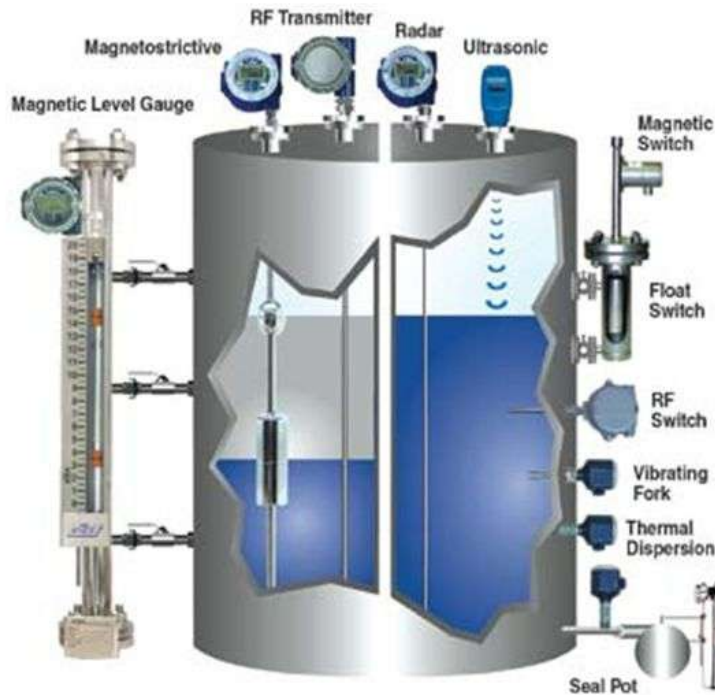
PRESS



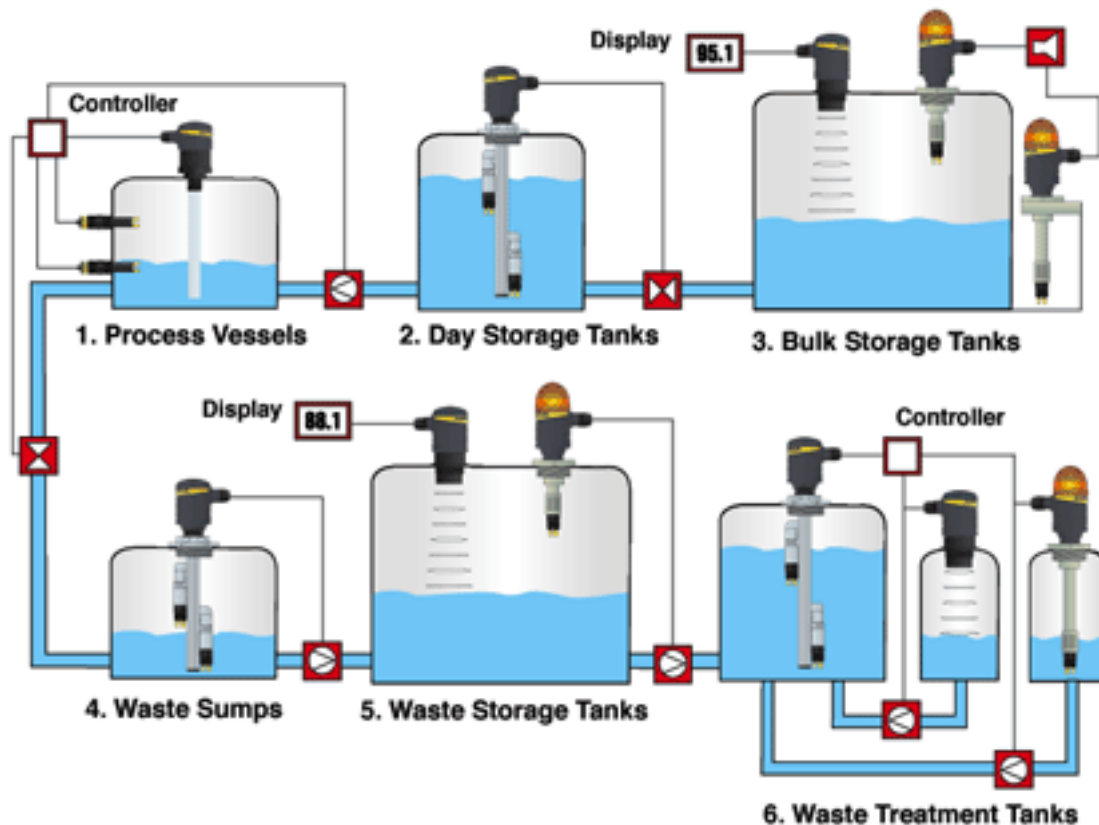
>ADC-mV DOSP:OFF
KEYPAD BEEP: ON
TANK CAPACITY
SAVE EXIT

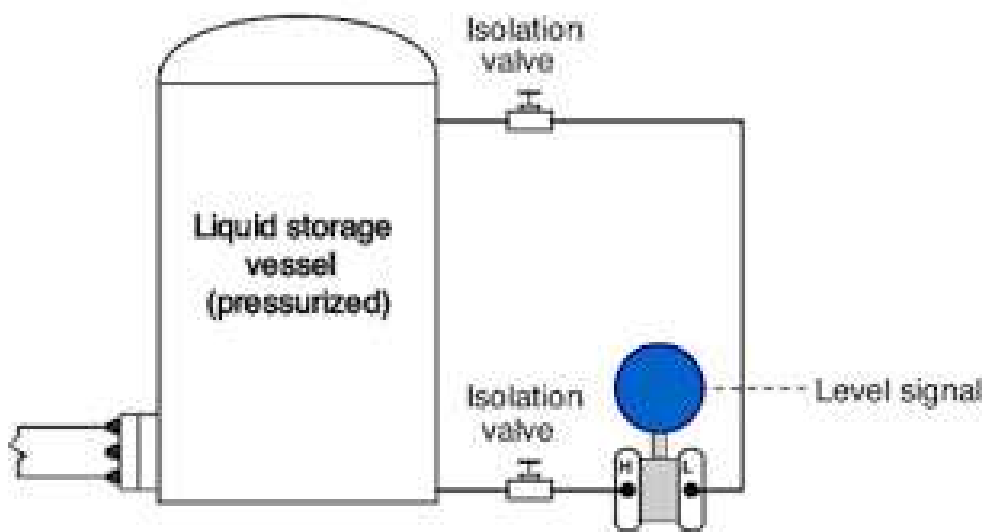
APPLICATIONS

Methods – Direct or Indirect (inferential)



- Hydrostatic Head
- Float
- Load Cells
- Magnetic Level Gauge
- Capacitance Transmitters
- Magnetostriuctive
- Ultrasonic
- Microwave
- Laser
- Radar
- Guided Wave Radar
- Dip Stick
- Vibration





ARANKA

USER MANUAL



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