



ARANKA

Solution
with **Perfection**



ARANKA

USER MANUAL

AICLT24

CAPACITANCE LEVEL TRANSMITTER

Ver. 1.0



**ROPE
TYPE**



**ROD
TYPE**



CE -2209

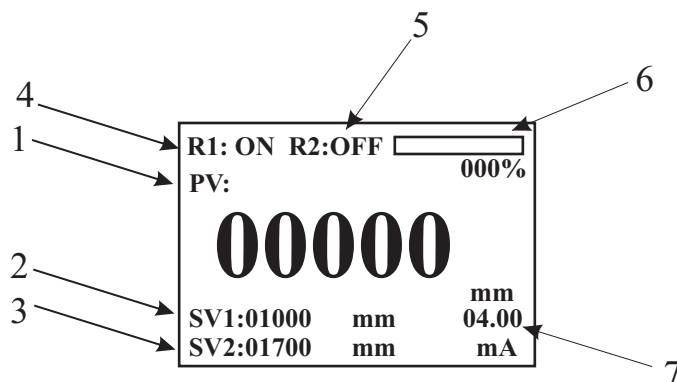
ISO 9001:2015 COMPANY



TERMINAL CONNECTION

1	+24V	POWER + 24 VDC
2	-24V	POWER - 24 VDC
3	RS485	COMMUNICATION RS485+
4	RS485	COMMUNICATION RS485-
5	4-20	+4-20mA OUTPUT
6	4-20	-4-20mA OUTPUT
7	NO	NORMAL OPEN FOR RELAY 2
8	C R2	COMMON FOR RELAY 2
9	NC R2	NORMAL CLOSE FOR RELAY 2
10	NO	NORMAL OPEN FOR RELAY 1
11	C R1	COMMON FOR RELAY 1
12	NC R1	NORMAL CLOSE FOR RELAY 1

SCREEN



- 1 PRESENT VALUE OF LEVEL
- 2 RELAY 1 SET POINT VALUE
- 3 RELAY 2 SET POINT VALUE
- 4 RELAY 1 STATUS
- 5 RELAY 2 STATUS
- 6 LEVEL IN PERCENTAGE
- 7 ANALOGUE OUTPUT VALUE IN mA



SPECIFICATIONS

POWER	: 24VDC
RESOLUTION	: 2 mm
ACCURACY	: $\pm$ 2% FS
DIGITAL OUTPUT	: 5A, 1CO, RELAY
DISPLAY	: OLED LCD
BODY	: ALUMINUM
COMMUNICATION	: Rs485 MODBUS RTU

KEY FUNCTION



TO ENTER MENU

TO INCREASE VALUE &
IT WILL SCROLL 0 TO 9

TO SHIFT DIGIT



TO SAVE DATA IN CALIBRATION MENU& SET POINT



PROGRAM PARAMETER SETTING

SETPOINT SETTING

R1: ON R2:OFF		
PV:	000%	
00000		
SV1:01000	mm	04.00
SV2:01700	mm	mA

PROG



- 1 SETPOINT SETTING
- 2 PARAMETER SETTING
- 3 CALIBRATION
- 4 COMMUNICATION

TO SET SETPOINT SET CURSER
TO 1 SETPOINT SETTING.PRESS

ENT



SET POINT

- 1 SET POINT 1
- 2 SET POINT 2

ENT



TO SET RELAY 1 SETPOINT1 &
HYSTRS. FOR RELAY HYSTAREISIS
VALUE TO SET RELAY OFFSET
FOR ON/ OFF CONTROL.
USING UP & SHIFT KEY YOU CAN
SET DESIRE VALUE.

SV1 :00004	mm
HYSTRS. :+0001	mm

ENT



PROG



TO SET SETPOINT SET CURSER
TO 2 SETPOINT SETTING.PRESS

SET POINT

- 1 SET POINT 1
- 2 SET POINT 2

ENT



TO SET RELAY 2 SETPOINT2 &
HYSTRS. FOR RELAY HYSTAREISIS
VALUE TO SET RELAY OFFSET
FOR ON/ OFF CONTROL.
USING UP & SHIFT KEY YOU CAN
SET DESIRE VALUE.

SV1 :00004	mm
HYSTRS. :+0001	mm

ENT



PROG



SET POINT

- 1 SET POINT 1
- 2 SET POINT 2

PROG



- 1 SETPOINT SETTING
- 2 PARAMETER SETTING
- 3 CALIBRATION
- 4 COMMUNICATION

PROG

**MAIN
SCREEN**



PROGRAM PARAMETER SETTING

PARAMETER SETTING

R1: ON R2:OFF ☐ 000%

PV:

00000

mm 04.00

SV1:01000 mm

SV2:01700 mm mA

PROG



- 1 SETPOINT SETTING
- 2 PARAMETER SETTING
- 3 CALIBRATION
- 4 COMMUNICATION

TO SET PARAMETER SETTING
SET CURSER TO 2 PARAMETER
SETTING AND ENTER PASSWORD

ENT



PASSWORD

[****]

ENT



- 1 CONTROL MODE
- 2 UNIT
- 3 MEASURING RANGE
- 4 ANALOG OUTPUT RANGE



PROGRAM PARAMETER SETTING

SR NO	PARAMETER	KEY	OPERATION	DISCRIPTION
1	CONTROL MODE	UP KEY		
		ENT KEY		
			RELAY1 MODE : -HOT	USING UP KEY YOU CAN SET RELAY OPERATION MODE HOT OR COOL TO MAKE RELAY ON BEFORE SET POINT OR AFTER SET POINT. AFTER SELECTION PRESS ENT KEY TO SAVE DATA
			RELAY2 MODE : HOT	
		PROG		TO COME BACK
2	UNIT	UP KEY		
		ENT KEY		
			UNIT : - mm	USING UP KEY YOU CAN SET UNIT NEED TO DISPLAY. THE UNITS ARE mm, cm, inch, ft, m, %. AFTER SELECTION PRESS ENT KEY TO SAVE DATA
		PROG		TO COME BACK
3	MEASURING RANGE	UP KEY		
		ENT KEY		
			MIN : 00000 mm	USING UP & ENT KEY YOU CAN SET DISPLAY LENGTH RANGE IN mm ONLY AFTER SELECTION PRESS ENT KEY TO SAVE DATA
			MAX : 00000 mm	
		PROG		TO COME BACK
4	ANALOGUE OUTPUT	UP KEY		
	RANGE	ENT KEY		
			OFFSET : + 00.02 mA	TO SET OFFSET FOR 4-20mA OUTPUT
			MIN : 00000 mm	TO SET MINIMUM OUTPUT RANGE FOR 4-20mA
			MAX : 00000 mm	TO SET MAXIMUM OUTPUT RANGE FOR 4-20mA
			MODE : REVERSE	TO SET 4-20mA OUTPUT AGAINST LEVEL OR DISTANCE
		PROG		TO COME BACK
		PROG		TO MENU SCREEN
		PROG		TO MAIN SCREEN



PROGRAM PARAMETER SETTING

CALIBRATION

R1: ON R2:OFF	000%	
PV:	00000	
SV1:01000	mm	04.00
SV2:01700	mm	mA

PROG



- 1 SETPOINT SETTING
- 2 PARAMETER SETTING
- 3 CALIBRATION
- 4 COMMUNICATION

TO SET CALIBRATION
SET CURSER TO 3 CALIBRATION

ENT



PASSWORD
[****]

ENTER PASSWORD USING UP & SHIFT KEY AFTER ENTERED PASSWORD PRESS ENT KEY

- 1 CALIBRATION
- 2 OFFSET
- 3 CALIBRATION DATA

ENT



CALIBRATION

CALIBRATION MODE
ZERO : 0618.876 mV
[TEACH] [CANCEL]

TO SET ZERO CALIBRATION KEEP SENSOR BOTTOM PART IN LIQUID LET mV STABLE & PRESS ENT KEY FOR 3 SECOND, AFTER ZERO CALIBRATION SCREEN WILL AUTOMATIC SHIFT TO NEXT SPAN CALIBRATION SCREEN.

ENT



CALIBRATION MODE
SPAN : 0918.876 mV
[TEACH] [CANCEL]

TO SET SPAN CALIBRATION KEEP SENSOR FULL LENGTH PART IN LIQUID LET mV STABLE & PRESS ENT KEY FOR 3 SECOND, AFTER SPAN CALIBRATION DONE SCREEN WILL AUTOMATIC SHIFT TO NEXT SCREEN WILL SHOW AS BELOW.

ENT



CALIBRATION
DONE

AUTO
JUMP TO



R1: ON R2:OFF	000%	
PV:	00000	
SV1:01000	mm	04.00
SV2:01700	mm	mA



PROGRAM PARAMETER SETTING

CALIBRATION

R1: ON R2:OFF		000%
PV:		
00000		
SV1:01000	mm	mm 04.00
SV2:01700	mm	mA

PROG



- 1 SETPOINT SETTING
- 2 PARAMETER SETTING
- 3 CALIBRATION
- 4 COMMUNICATION

TO SET CALIBRATION
SET CURSER TO 3 CALIBRATION

ENT



PASSWORD

[****]

ENTER PASSWORD USING UP & SHIFT KEY AFTER ENTERED PASSWORD PRESS ENT KEY

- 1 CALIBRATION
- 2 OFFSET
- 3 CALIBRATION DATA

ENT



OFFSET

OFFSET: + 0000 mm

TO SET LINEAR OFFSET VALUE AFTER CALIBRATION IF DESIRE
USING UP & SHIFT KEY YOU CAN SET DESIRE VALUE IN HEIGHT mm.
PRESS ENT KEY AFTER SET VALUE TO SAVE DATA & BACK TO PREVIOUS
SCREEN .

3 CALIBRATION DATA IS FOR FACTORY USE.

PASSWORD

- | | |
|---------------------|------|
| 1 PARAMETER SETTING | 1234 |
| 2 CALIBRATION | 5088 |
| 3 COMMUNICATION | 5678 |



ARANKA

Solution
with **Perfection**

SR NO: _____



 **ARANKA** INSTRUMENTS **LLP**

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

Web : www.arankainstruments.com
e-mail : utkarsh@arankainstruments.com, contact@arankainstruments.com
Cont : (F) 09909035088, +91 93288 88879