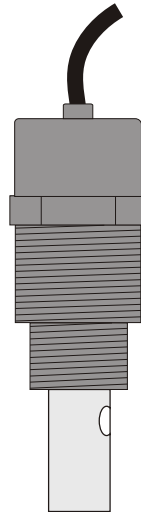
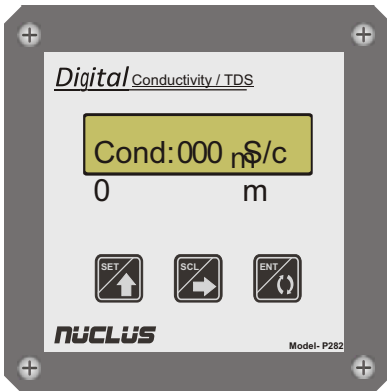


Operating Manual

Model- C282

Conductivity / TDS Controller



Authorised Dealer



NK Instruments Pvt. Ltd.

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Nuclus make a **Digital** Conductivity / TDS indicator model- C181 are suitable for a wide variety of applications from high purity water quality monitoring to weak acids and bases. electrode surface finishes are controlled to ensure measurement accuracy and repeatability. Double threaded connections in either ½ inch or ¾ inch BSP enable quick and easy installation in submersible or in-line configurations. Microprocessor based electronics allow wide operating range and long term signal stability.

Features

- Dual-threaded (½ & ¾ inch BSP male)
- Weather proof enclosure (IP65 protection)
- Universal power supply 70 to 270V AC SMPS
- Compact electrode length for easy in-line installation in small pipe sizes
- In-line / Submersible instalation
- Electrode surface finishes are controlled ensure measurement accuracy and repeatability.

Technical specification of Model- C-282

Function:	Conductivity & TDS Indicator
Display:	backlit alphanumeric 1 x 16 LCD
Supply Voltage:	70V AC to 270V AC SMPS
Linearity:	+ 2% of FSD_
Input:	from Nuclus Cell
Output:	5A pot. Free Relay @230VAC
Configuration Lock:	Password Protection.
Calibration:	Using front keys
Housing:	Plastic ABS.
Protection:	IP 65
Meter Size:	110mm X 110 mm X 140mm
Cutout Size:	90 mm X 90 mm

Application

- Water Treatment plants
- Reverse Osmosis
- Deionization
- Distillation
- Cooling tower and Boiler Protection
- Semiconductor
- Chemical concentration

Technical specification of Conductivity cell

Wetted Materials

Cell Body	Polypropylene (White)
Electrode:	SS316
Insulator:	PTFE with epoxy potting
Threaded Connection:	½ & ¾ inch BSP
Cable length :	3 meter (STD)
Cell Weight:	500 gms (Approx.)

Cell Range

0.01 Cell constant : 0.055 to 100 mS/cm

0.10 Cell constant : 1 to 1000 mS/cm

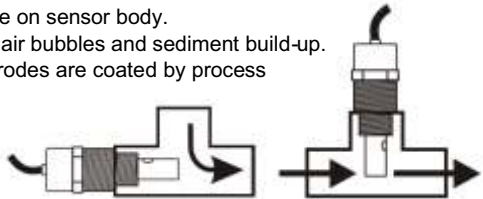
1.00 Cell constant : 10 to 10000 mS/cm

Installation Tips

- Liquid levels must be high enough to cover orifice on sensor body.
- Install sensors in an area that will remain free of air bubbles and sediment build-up.
- Conductivity measurements are affected if electrodes are coated by process substances



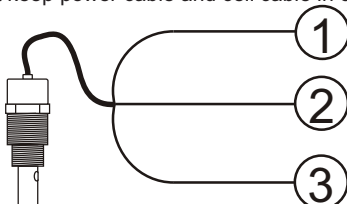
For Inline installation



Use caution to avoid air bubble or sediment trapping inside the electrode cavity.

Connection details

- Before sensor connection to instrument Please Refer the manual for specific wiring details.
- Disable power to instrument before connecting this sensor.
- Do not keep power cable and cell cable in one conduit pipe.



① Red colour S1 (signal IN)

② Black colour S2 (signal out)

③ White colour SH (Shield ground)

Programing for model- C-282



Digital Conductivity / TDS i.e. Model C-181 is conductivity & TDS indicator

Press key for 3 seconds display shows Password: 0000

Press & keys to set password as Password: 1603

Then press key display shows cell constant Cell Const: 0.1

Press key to select cell constant this value can be change 1, 0.1 & 0.01

than press Key display shows actual cell constant ActualCC: 0.100

Press & keys to set actual cell constant this value can be change +10% of cell constant select i.e. _

If 1 cell constant is set than actual cell constant will change from 0.9 to 1.1 (i.e. 10% of cell constant)

If 0.1 cell constant is set than actual cell constant will change from 0.09 to 0.11 (i.e. 10% of cell constant)

If 0.01 cell constant is set than actual cell constant will change from 0.009 to 0.011 (i.e. 10% of cell constant)

If actual cell constant not in the above range display shows Act.CC Not Valid

and go back to actual cell constant menu & process repeat if set within range

Than display shows display mode selection Mod Sel: Cond

Press key to select display mode Conductivity / TDS / Conductivity & TDS than press key

Than display shows cable length of cell Cable Len : 3.5M

Press key to select cable length of cell 3.5M / 1M, than press key

Display shows toggle time Tog Time : 0 5 This time is applicable if Conductivity & TDS both are select

Press & keys to set toggle time in seconds max set time is 99 seconds

Than press key display shows regular Conductivity / TDS reading

How to set relay set npoint

Press key for 3 seconds display shows Password: 0000

Press & keys to set password as Password: 1610

Than press key display shows relay set point Set Point: 0000


Press & keys to relay set point Password: 1610


than press Key display shows actual cell constant SetDecimal: 0



Press key to select decimal this value can be set 0 to 3


than press Key display final set point for one second Set Point: 0000

than display shows Set Hysteresis for relay Set Hyst : 0%

Press  key to select hysteresis in % this value can be set 0 to 10

than press  Key display shows time delay for relay Time delay: 00

Press  &  keys to set delay for relay max set value is 99 seconds.

than press  Key display shows relay NO NC selection NO NC Sel: NC

Press  key to select relay contact when relay is OFF

Than press  key display shows regular Conductivity / TDS reading

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