

Astero[®] Lite NXT



Overall size: 230 (horizontal) mm X 255 (vertical) mm X 65 (depth) mm

Cutout size: 190 (horizontal) mm X 222 (vertical) mm

TEST REPORT

This is the test report as done at our factory by our QA team. The instrument is tested thoroughly & found working logically as per standards.

Sr.no. :

Done by :

Date :

GURANTEE CERTIFICATE

We certify that the instrument mentioned above has been tested by us and is guaranteed for a period of 12 months from the date of dispatch. We would replace or repair defects arising due to faulty design, material, or workmanship within the above mentioned period. This is if the part in respect to which the complaint is made, is sent at the purchaser's expense.

The warranty is valid subject to:

- The meter or part has not been subject to alteration, accident or misuse.
- The installation having been done as per our guidelines

Client:

For **Embark**

Date of dispatch:

Authorized Signatory

Automation Philosophy :

The *ASTERO-LITE* NXT is ideally suited for small sized RO plants as it has operating logic of process preprogrammed. The controller can take five inputs from four devices namely Low pressure switch (LPS), High pressure switch (HPS), Raw water tank level switch (RWT Floaty), Treated water tank level switch (TWT Floaty) and conductivity sensor also controls the three outputs Raw water pump (P N) High pressure pump (P N) and Flush solenoid valve (P N).

Operating logic :

The *ASTERO-LITE* NXT can work in AUTO as well as MANUAL mode. Operation mode can be set with the help of SYSTEM key. If it's in AUTO mode then it will follow Starting & stopping sequence. If it's in manual mode then individual pump can be made ON/OFF with two separate keys. (RWP with START and HPP with STOP key also FSV with MENU key).

Note : HPP will start only if RWP is ON)

Starting sequence :

Upon switching ON power supply if *ASTERO-LITE* NXT is in AUTO mode and if the level of raw water tank is high & level of treated water tank is low, flushing will go on for programmed time. After flush time is over the controller will check for low pressure input. If input is ON (short) high pressure pump will start.

Stopping sequence :

Under following conditions controller will stop the plant :

- 1) If LPS is OFF (open)
- 2) If HPS is ON (short)
- 3) If Raw water tank is empty (Open)
- 3) If Treated water tank is full (Short)
- 4) If TDS is above the set point.

Instructions for settings :

- ▶ Use START key to make RWP ON/OFF (In manual mode)
to start the plant (in AUTO mode)
- ▲ Use STOP key to make HPP ON/OFF (in manual mode) and
to stop the plant (in AUTO mode)
- ⬅ Use MENU key to make FSV ON/OFF and to Select the routine.
- Ⓛ Use LPS key to bypass the LPS input. (If led is off then it is bypassed).
- Ⓢ Use SYSTEM key to change the operating mode i.e. Auto/Manual.
- Ⓛ Use FLOATY key to bypass the floaty of Treated water tank.
(If led is off then it is bypassed)

Maximum Recommended HP ratings :

Pump Raw Water pump High pressure pump Solenoid valve
Rating 0.5 hp Single phase 2 hp Single phase 230 V.A.C.(NC type)

TERMINAL CONNECTIONS :

IN COMER FUSE	MAINS		RWP		HPP		FSV		RWT FLOTY	LPS	HPS	TWT FLOTY	COND. SENS
	P	N	P	N	P	N	P	N	C NC	C NO	C NO	C NC	R B

TERMINAL DETAILS:

Terminal	Description	Connections
RWT FLT	Raw water tank floaty	C-Common,NC-Normally Closed
LPS	Low Pressure Switch	C-Common,NO-Normally Open
HPS	High Pressure Switch	C-Common,NO-Normally Open
TWT FLT	Treated water tank floaty	C-Common,NC-Normally Closed
COND.SENS	CONDUCTIVITY SENSOR	R-Red , B-Black
RWP	Raw Water Pump	P-Phase,N-Neutral
HPP	High Pressure Pump	P-Phase,N-Neutral
FSV	Flushing Sol.Valve	P-Phase,N-Neutral

TDS CALIBRATION:**Why to calibrate?**

If there is mismatch between actual and required value of TDS in flowing solution then there is need for recalibration.

For that 1) Dip the sensor in standard known solution and set the required factor.

Ex.If actual value is 500 ppm and required value is 450 ppm then calibrate as:

STOP & MENU KEY SIMULTANEOUSLY	PAS
	000
ENTER THE PASSWORD 234 USING START & STOP KEY	
MENU	Cn.F
MENU	(Previously set Calibration factor)
SET THE DESIRED CALIBRATION FACTOR USING START & STOP KEY	
MENU	(ACTUAL TDS VALUE)

TROUBLESHOOTING :

LED Blinking	Cause	Action
LPS	Wrong wiring	Check, is it C NO contact? If not make it.
	Set point disturbed	Pressure Lower than set value. Increase pressure or reduce set point
	LPS not connected	Connect LPS or short LPS terminals by an external link or Bypass the LPS.
RWT TANK	Actually tank is empty.	-----
	Wrong wiring	Do wiring such that both the terminals should open @ healthy condition.
TWT TANK	Actually tank is full.	-----
	Wrong wiring	Do wiring such that both the terminals should short @ healthy condition.
	Floaty not connected	Connect Floaty or short the terminals by an external wire link.

Available with Your Trusted Partner for Water Treatment Solutions:



Workshop: 14-15, Panchratna Industrial Estate, Opp Satyam Mall, Sumip Composite-3 Lane, B/h VR Pilsulfate, Changodar-382213

Office: B-214, Nilkanth Palace, 100 feet Anandnagar Road, Satelite, Ahmedabad-380015

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