

TECHNICAL SPECIFICATIONS:

1) Size	144(H) X 144(V) X 115(D) mm
2) Cutout size	138(H) X 138(V) mm
3) Display	20 X 4 Alphanumeric LCD display
4) Settings	Through front panel keys(3 numbers)
5) Timings	Settable (Password protected)
6) Inputs	4 switch inputs 1 Pulse inputs for Flow
7) Outputs	10 (C NO) relay & RS 485 O/P
8) Supply	230 VAC \pm 15%

Available with:

FILTRA CONSULTANTS AND ENGINEERS LTD.Gala No. 2 & 3, Ground Floor, Neminath Industrial Estate No. 2, Navghar, Vasai (East), Dist.: Palghar - 401 219
Tel.: +91 8691009127/26 Email: filtraw@gmail.com Website: www.ewatertreatmentindia.com

Automation Philosophy:

Logic Controller is ideally suited for various ETP/STP plants. The process is batchwise with most drives having a standby. The key to having a trouble free long-term operation of a well designed plant is

To follow the sequence of starting and stopping,

To automatically switch over to standby pump/blower after a preset time

Give alarm in case of

o Flow or Blower switchgear fault

Stop/Start plant based on levels in raw effluent tank.

Level interlock for Filter Feed pump.

Plant operating status known at any time on a four line alphanumeric display as well as system mimic diagram with LED indicators.

Sludge transfer pump to be ON for a set time periodically.

The Aster Logic controller ensures that all the above process needs are ECONOMICALLY met. Most timings are programmable at site. The controller can even be supplied along with a complete panel including the motor starters and instruments /sensors and hooter. Settings are password protected.

Controller has a provision for RS 485 output for displaying plant status on remote computer or data reception through SMS.

Instructions for Setting the Panel:

Use the following keys for settings.

- ▶ **START** : This key is used to start the operation and move the curser forward.
- ▲ **STOP** : This key is used to Start/Stop/Hold/Skip/Reset the operation and increase the value.
- ◀ **MENU** : This key is used to go to Enter & save.

TERMINAL CONNECTIONS:

No.	Description	Connections
1	MAINS SUPPLY 230VAC,50 Hz	PHASE
2		NEUTRAL
3		EARTH
4	POLE 1	Common for 5,6
5	RSP 1	NORMALY OPEN
6	RSP 2	NORMALY OPEN
7	POLE 2	Common for 8,9,10
8	BLOWER 1	NORMALY OPEN
9	BLOWER 2	NORMALY OPEN
10	AIR I/L	NORMALY OPEN
11	POLE 3	Common for 12,13,14
12	STP 1	NORMALY OPEN
13	STP 2	NORMALY OPEN
14	FFP 1	NORMALY OPEN
15	POLE 5	Common for 16,17
16	FFP 2	NORMALY OPEN
17	DECANT	NORMALY OPEN
18	NC	NOT CONNECTED
19	NC	NOT CONNECTED
20	V+	Supply to Flow Sensor
21	GND	GROUND
22	EQ. TANK LVL	NORMALLY CLOSED
23	SBRTANK LVL	NORMALLY CLOSED
24	CLW TNK LVL	NORMALLY CLOSED
25	REMOTE TRIP	NORMALLY OPEN
26	PUMP CONT.	NORMALLY CLOSED
27	Common	Input Common
28	N.A.	NOT APPLICABLE
29	N.A.	NOT APPLICABLE
30	N.A.	NOT APPLICABLE
31	N.A.	NOT APPLICABLE
32	N.A.	NOT APPLICABLE
33	FLOW SENSOR INPUT	R - Red
34		G - Green
35		B - Black
36	Serial Comm.	+
37		-

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HOW TO DO THE SETTINGS:

Upon switching ON power supply display shows-
ASTER

SBRMATIC V3.0

And then status of plant. Follow the below instructions to do the Required settings.

SECTION 1.1 INPUT CONFIGURATION

Key Pressed	Display
START & STOP simultaneously	PASSWORD:0000
Enter the password 678 using START & STOP keys.	
MENU	FLOW SENSORS
MENU	FLOW SENSORS NO.OF SENSORS:
MENU	FLOW SENSORS NO.OF SENSORS: 1
The instrument has facility to connect one flow sensor directly to the terminal. If someone doesn't want to connect flow sensor then he can just make no.of sensors:0 with the help of STOP key.	
MENU	FLOW SENSORS SENSOR RESOL:0.1
MENU	FLOW SENSORS QUIT?
MENU	FAULT MESSGE:
MENU	FAULT MESSGE: REMOTE FAULT !!
This message can be changed to MOTOR OVERLOAD !	
MENU	EQT LVL IP:
MENU	EQT LVL IP:ON
MENU	ST LO IP:
MENU	ST LO IP:ON
MENU	CLW LVL IP:
MENU	CLW LVL IP:ON
MENU	REMOT TRIP:
MENU	REMOT TRIP:ON
MENU	EXIT?
SECTION 1.2 TO SET STEP TIMINGS	
Enter the password 345 using START & STOP keys.	
MENU	SET STEP TIME?
MENU	SET STEP TIME? STEP 1
MENU	SET STEP TIME? STEP 1 000
USE START & STOP keys TO SET DESIRED VALUE.	
MENU	SET STEP TIME? STEP 2
MENU	⋮
MENU	SET STEP TIME? STEP 6 000

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MENU	SET STEP TIME? QUIT?
MENU	EXIT?
MENU	
SECTION 1.3 CONFIGURING NO.OF PUMPS	
One can set the number of pumps/blowers using this routine. Enter the password 168 using START & STOP keys.	
MENU	IT PUMP :
MENU	IT PUMP : 2
Use STOP key to make it 1 (if only one pump is connected)	
MENU	BLOWER :
MENU	BLOWER : 2
Use STOP key to make it 1 (if only one pump is connected)	
MENU	FF PUMP :
MENU	FF PUMP : 2
Use STOP key to make it 1 (if only one pump is connected)	
MENU	SLUDGE PMP :
MENU	SLUDGE PMP : 2
Use STOP key to make it 1 / 2 as per connected switchgear	
MENU	QUIT ?
MENU	
SECTION 1.4 SETTING DISPLAY	
MENU	SCROLL?
MENU	SCROLL? SCROLL? OFF
Use STOP key to make it ON. In that case display will scroll through Flow rate, volume, Status & time of all pumps	
TO VIEW THE FACTORY SETTINGS	
MENU	VIEW?
Display shows all the inputs configuration in scrolling.	
MENU	EQT LVL IP: ON
	ST LO IP : ON
	CWL LVL IP: ON
	REMOTE TRIP: ON
MENU	OP. MODE?
	OP. MODE? AUTO
What is this ? One can select operation mode as AUTO or MANUAL . In auto mode controller will follow all the steps. If operation mode is MANUAL then operator can select any step. Controller will complete the selected step only.	
USE STOP KEY TO MAKE IT MANUAL	
MENU	EXIT?

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SECTION 1.2	SETTING DISPALY
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MENU	SCROLL?
MENU	SCROLL?
	SCROLL? OFF

Use STOP key to make it ON.In that case display will scroll through Flow rate,volume,Status & time of all pumps