SEQUETROL STARTER

PROFESSIONAL CONTROL UNIT FOR WASTEWATER TREATMENT
SC5/3 MB, W5 EN W8

1. Description;

Sequetrol is unique technology that is soundless and energy saving.
With the Sequetrol you can monitor the wastewater treatment, alarm for faults and mains failure, perfect control of the process, control of external devices such as an Electro valve. To install together with the pump. The electro valve is for operating the airlift in the last tank.
The control box is programmed in the factory.

2. Technical data:

Outputs: 2 x 230V relays.
- 1 on electrical socket in casing (for compressor)
- 1 on the screw type terminal (for electro valve)

Output: 1 x 5-24VDC
- On the screw type terminal (for an extra alarm)

User interface:
- 4 buttons (+; -; OK; Holiday)
- 1 alphanumeric LCD, 2 x 16 characters.

Sensors:
- Current monitoring

Backup battery:
- Build-in rechargeable backup battery. Operating time 12 to 24 hours.

Real time clock:
- With own backup battery type CR2 (target life > 10 year)

Software:
- Control unit will switch the blower output on/off according to the timing:
  - i)   NORMAL: intended for normal load (defined ON/OFF time)
  - ii)   ECO: intended for Night/Holiday load (defined ON/OFF time)
- Control unit will switch the electro valve output on/off according to the timing.
- Two time periods are considered for control scheme

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Basic	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco
Weekday	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	D=Standard N=Eco	ECO	ECO
Weekend	ECO	ECO	ECO	ECO	ECO	D=Standard N=Eco	D=Standard N=Eco
Holiday	ECO	ECO	ECO	ECO	ECO	ECO	ECO

Holiday mode is timer based, after finish it returns back to previous mode.
Duration of holiday mode can be set (in days) by holiday button.

Boralit products category B – Wastewater Treatment – Manual Control box – Version 2017 - Belgium - English   2
Boralit N.V. - Nijverheidslaan 12 – 9880 AALTER – Belgium
Tel.: +32 (0) 9 375 11 11 – Fax: +32 (0) 9 375 22 22
Site: www.boralit.com - E-mail: sales@boralit.com

Learning period:

Blower alarm is disabled and in this period (24h) control unit will measure minimum and maximum current of the blower used for blower alarm.
There is a buffer-function in percentage for the minimum and maximum possible, which can be defined manually in the menu.

Operating hours recording:
- Total operating time control box
- Operating time blower
- Operating time alarm

Type alarms:
- Mains outage
- Blower current out of limits

PIN code protection:
- UPIN: user 4 digit pin
- SPIN: Service 6 digit pin

Language selection:
- Standard Dutch en French
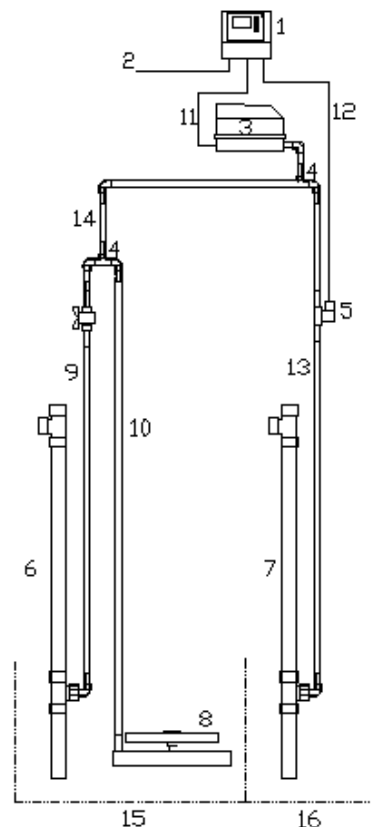- In option : English and German
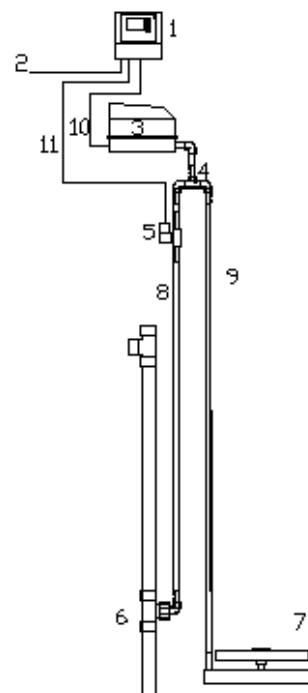
GSM:
- As an option available.

3. Connection diagram:

- Connection diagram for the SC W5 and W8:

  1: Control box
  2: Mains
  3: Blower
  4: Manifold for air
  5: Electro valve
  6: Airlift in aeration tank
  7: Airlift in clarifier
  8: Aeration disk
  9: Hose from flow faucet to airlift in aeration tank
  10: Hose from manifold to aeration disk
  11: Connection blower on control box
  12: Connection electro valve on control box
  13: Hose from electro valve to airlift clarifier
  14: Hose from manifold near blower to aeration tank
  15: Build-in in aeration tank
  16: Build-in in clarifier

Boralit products category B – Wastewater Treatment – Manual Control box – Version 2017 - Belgium - English   3
Boralit N.V. - Nijverheidslaan 12 – 9880 AALTER – Belgium
Tel.: +32 (0) 9 375 11 11 – Fax: +32 (0) 9 375 22 22
Site: www.boralit.com - E-mail: sales@boralit.com

- Connection diagram for the SC 5/4 MB

1: Control box
2: Mains
3: Blower
4: Manifold for air
5: Electro valve
6: Airlift
7: Aeration disk
8: Hose from electro valve to airlift
9: Hose from manifold to aeration disk
10: Connection blower on control box
11: Connection electro valve on control box

4. Overview menu

Main menu :

Arrow up/down	Description
Date-time Output1 : 1 Output2 : 0	0 = off 1 = on
Leaning mode Remaining : 23 h	Remaining time in learning mode
Holiday mode Remaining : 2 days	Remaining time in holiday mode
Alarm name Date + time	Battery alarm Blower alarm Mains outage Date-time last alarm
Menu setup *	Pin code of 4 digit (see user menu)
Service menu **	Pin code of 6 digit (see service menu)
Operating time	Total control box Blower Total in 30 days Blower in 30 days Alarm No alarm sins
GSM	Not installed

Boralit products category B – Wastewater Treatment – Manual Control box – Version 2017 - Belgium - English   4
Boralit N.V. - Nijverheidslaan 12 – 9880 AALTER – Belgium
Tel.: +32 (0) 9 375 11 11 – Fax: +32 (0) 9 375 22 22
Site: www.boralit.com - E-mail: sales@boralit.com

User Menu: only available with pin

Arrow up/down	Description	Setting
Day and hour menu	Date	Actual date/time
	Hour	
Language	Dutch	Dutch
	French	
Manual mode	Out 1	Off/on
	Out 2	Off/on
User Mode	1= ECO OFF: standard 2= day/night (day = normal, night = eco) 3= Weekdays eco: day/night + weekend eco 4= week eco + weekend eco: day/night	

Service menu: only available with pin

Arrow up/down	Description	Setting	Setting SC W5 – W8	Setting SC 5/4 MB
Day and hour menu	Day	Actual	Actual	Actual
	Time	Actual	Actual	Actual
POWER OFF	Press 3 seconds on OK			
Menu: Timing	OUT1	Time cycle on	999:00	20:00
		Time cycle off	001:00	10:00
		ECO on	999:00	20:00
		ECO of	001:00	10:00
	OUT2	Time cycle on	10	04
		Time cycle off	01:00	23:00
		Time eco on	001:00	01:00
		Time eco off	059:00	05:00
	Night interval		22:00-06:00	22:00-06:00
Menu blower	Learning period	On/off	On	On
	Low limit	In %	-20%	-20%
	High limit	In %	+20%	+20%
	Minimum power		Actual	Actual
	Maximum power		Actual	Actual
	Installed power			
Manual mode	Out 1	Off/on		
	Out 2	Off/on		
Service PIN	6 digit code			
User Mode	1= ECO OFF: standard 2= day/night (day = normal, night = eco) 3= Weekdays eco: day/night + weekend eco 4= week eco + weekend eco: day/night			
Reset	Airpump			
	Alarm			

Boralit products category B – Wastewater Treatment – Manual Control box – Version 2017 - Belgium - English   5
Boralit N.V. - Nijverheidslaan 12 – 9880 AALTER – Belgium
Tel.: +32 (0) 9 375 11 11 – Fax: +32 (0) 9 375 22 22
Site: www.boralit.com - E-mail: sales@boralit.com