We required following command to operate panel

1. Read status sms
2. Read machine settings sms
3. Write machine settings sms
4. Control
5. Read status:

This function will be used to know the status of the panel (in which condition the panel is, and also the readings of different parameters)

For this send STATUS text to the panel, panel will check the number and the text STATUS, after it, it will reply as follows,

a,b,c,d,e ,f,g…

the a,b, c is described as bellow

1. Working conditions(2 digits): 1 = ro on work

2 = tank full

3 = sand filter backwash

4= carbon filter backwash

5= flushing

6= no network

7= error 1

8 = error 2

Upto

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1. ZRwp amp(2 digit)
2. ZHpp amp(2 digit)
3. Sand filter service hours(2 digit) hh
4. Carbon filter service hours(2 digit)
5. Softner filter service hours(2 digit)
6. Product tds(3 digit)
7. Today production(2 digit)
8. Total production(4 digit)
9. Today working hours(2 digit)
10. Total working hours(4 digit)
11. ZFeel flow(2 digit)
12. Product flow(2 digit)
13. ZFeed tds(2 digit)
14. ZRo inlet pressure(2 digit)
15. ZRo outlet pressure(2 digit)
16. ZPressure gauge 1(2 digit)
17. ZPressure gauge 2(2 digit)
18. ZPressure gauge 3(2 digit)
19. ZPressure gauge 4(2 digit)
20. Read machine settings: This function will work to read the parameter settings of the panel. For this send text READ SET to the panel, when panel receives the sms it will send a,b,c .. value as bellow
    1. SPP ON/OFF ( 1 digit)
    2. RWP ON/OFF ( 1 digit)
    3. RWP amp ( 2 digit)
    4. HPP ON/OFF ( 1 digit)
    5. HPP amp ( 2 digit)
    6. DRY RUN ON/OFF (1 digit)
    7. DRY RUN amp ( 2 digit)
    8. DOSING TANK ON/OFF ( 1 digit)
    9. LP ON/OFF ( 1 digit)
    10. LP TIME ( 2 digit)
    11. HP ON/OFF ( 1 digit)
    12. HP TIME ( 2 digit)
    13. SAND FILTER TIME ( 4 digit)
    14. CARBON FILTER TIME ( 4 digit)
    15. SOFTNER FILTER TIME ( 4 digit)
    16. FLUSING TIME 1 ( 2 digit)
    17. FLUSING TIME 2 ( 2 digit)
    18. FLUSING TIME 3 ( 2 digit)
    19. TANK FULL ON/OFF (1 DIGIT)
    20. SET DATE (6 DIGIT)
    21. SET TIME (6 DIGIT)
21. Set machine settings:

This function will work to write the parameter settings in to the panel. For this send text WRITE SET to the panel, when panel receives the sms it will send a,b,c .. value as bellow

* 1. SPP ON/OFF ( 1 digit) 1=on,0=off
  2. RWP ON/OFF ( 1 digit)
  3. RWP amp ( 2 digit)
  4. HPP ON/OFF ( 1 digit)
  5. HPP amp ( 2 digit)
  6. DRY RUN ON/OFF (1 digit)
  7. DRY RUN amp ( 2 digit) 1.23
  8. DOSING TANK ON/OFF ( 1 digit)
  9. LP ON/OFF ( 1 digit)
  10. LP TIME ( 2 digit)
  11. HP ON/OFF ( 1 digit)
  12. HP TIME ( 2 digit)
  13. SAND FILTER TIME ( 4 digit)
  14. CARBON FILTER TIME ( 4 digit) hhmm
  15. SOFTNER FILTER TIME ( 4 digit)
  16. FLUSING TIME 1 ( 2 digit)
  17. FLUSING TIME 2 ( 2 digit)
  18. FLUSING TIME 3 ( 2 digit)
  19. TANK FULL ON/OFF (1 DIGIT)
  20. SET DATE (6 DIGIT) ddmmyy
  21. SET TIME (6 DIGIT) hhmmss

1. Controls : For this send the following text

A MACHINE START

B MACHINE STOP

C START SAND FILTER BACK WASH

D START CARBON FILTER BACK WASH

E START SOFTNER FILTER BACK WASH

F START FLUSHING

Opeating:

1. When app requires status it will generate sms for particular panel .

Panel will receive sms and update 20 different status separated by comma (,)

1. When app requires machine parameters readings it will generate sms for particular panel .

Panel will receive sms and update 14 different parameters settings separated by comma (,)

1. When app requires change machine parameters readings it will generate sms for particular panel and send the 14 different parameters settings separated by comma (,)

When panel receives this sms , panel updates the parameters and also send ack sms to the system to confirmation

1. When app want to control the panel it will send the command A to F.