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-3,333,333,4444,4444,4444,333,22,4444,22,4444,22,22,333,22,22,22,22,22,22the 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. Rwp amp(3 digit xx.x)
2. Hpp amp(3 digit xx.x)
3. Sand filter service hours(4 digit xx:xx)
4. Carbon filter service hours(4 digit xx:xx)
5. Softner filter service hours(4 digit xx:xx)
6. Product tds(3 digit xxx)
7. Today production(2 digit xx)
8. Total production(4 digit xxxx)
9. Today working hours(2 digit xx)
10. Total working hours(4 digit xx:xx)
11. Feel flow(2 digit xx)
12. Product flow(2 digit xx)
13. Feed tds(3 digit xxx)
14. Ro inlet pressure(2 digit xx)
15. Ro outlet pressure(2 digit xx)
16. Pressure gauge 1(2 digit xx)
17. Pressure gauge 2(2 digit xx)
18. Pressure gauge 3(2 digit xx)
19. Pressure gauge 4(2 digit xx)
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 x)
    2. RWP ON/OFF ( 1 digit x)
    3. RWP amp ( 3 digit xx.x)
    4. HPP ON/OFF ( 1 digit x)
    5. HPP amp ( 3 digit xx.x)
    6. DRY RUN ON/OFF ( 1 digit x)
    7. DRY RUN amp ( 3 digit xx.x)
    8. DOSING TANK ON/OFF ( 1 digit x)
    9. LP ON/OFF ( 1 digit x)
    10. LP TIME ( 2 digit xx)
    11. HP ON/OFF ( 1 digit x)
    12. HP TIME ( 2 digit xx)
    13. SAND FILTER TIME ( 4 digit xx:xx)
    14. CARBON FILTER TIME ( 4 digit xx:xx)
    15. SOFTNER FILTER TIME ( 4 digit xx:xx)
    16. FLUSING TIME 1 ( 2 digit xx)
    17. FLUSING TIME 2 ( 2 digit xx)
    18. FLUSING TIME 3 ( 2 digit xx)
    19. TANK FULL ON/OFF (1 DIGIT x)
    20. SET DATE (6 DIGIT dd/mm/yy)
    21. SET TIME (6 DIGIT hr:mm:ss)
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 x)
  2. RWP ON/OFF ( 1 digit x)
  3. RWP amp ( 3 digit xx.x)
  4. HPP ON/OFF ( 1 digit x)
  5. HPP amp ( 3 digit xx.x)
  6. DRY RUN ON/OFF ( 1 digit x)
  7. DRY RUN amp ( 3 digit xx.x)
  8. DOSING TANK ON/OFF ( 1 digit x)
  9. LP ON/OFF ( 1 digit x)
  10. LP TIME ( 2 digit xx)
  11. HP ON/OFF ( 1 digit x)
  12. HP TIME ( 2 digit xx)
  13. SAND FILTER TIME ( 4 digit xx:xx)
  14. CARBON FILTER TIME ( 4 digit xx:xx)
  15. SOFTNER FILTER TIME ( 4 digit xx:xx)
  16. FLUSING TIME 1 ( 2 digit xx)
  17. FLUSING TIME 2 ( 2 digit xx)
  18. FLUSING TIME 3 ( 2 digit xx)
  19. TANK FULL ON/OFF (1 DIGIT x)
  20. SET DATE (6 DIGIT dd/mm/yy)
  21. SET TIME (6 DIGIT hr:mm:ss)

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

Operating:

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 sends ack sms to the system to confirmation

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