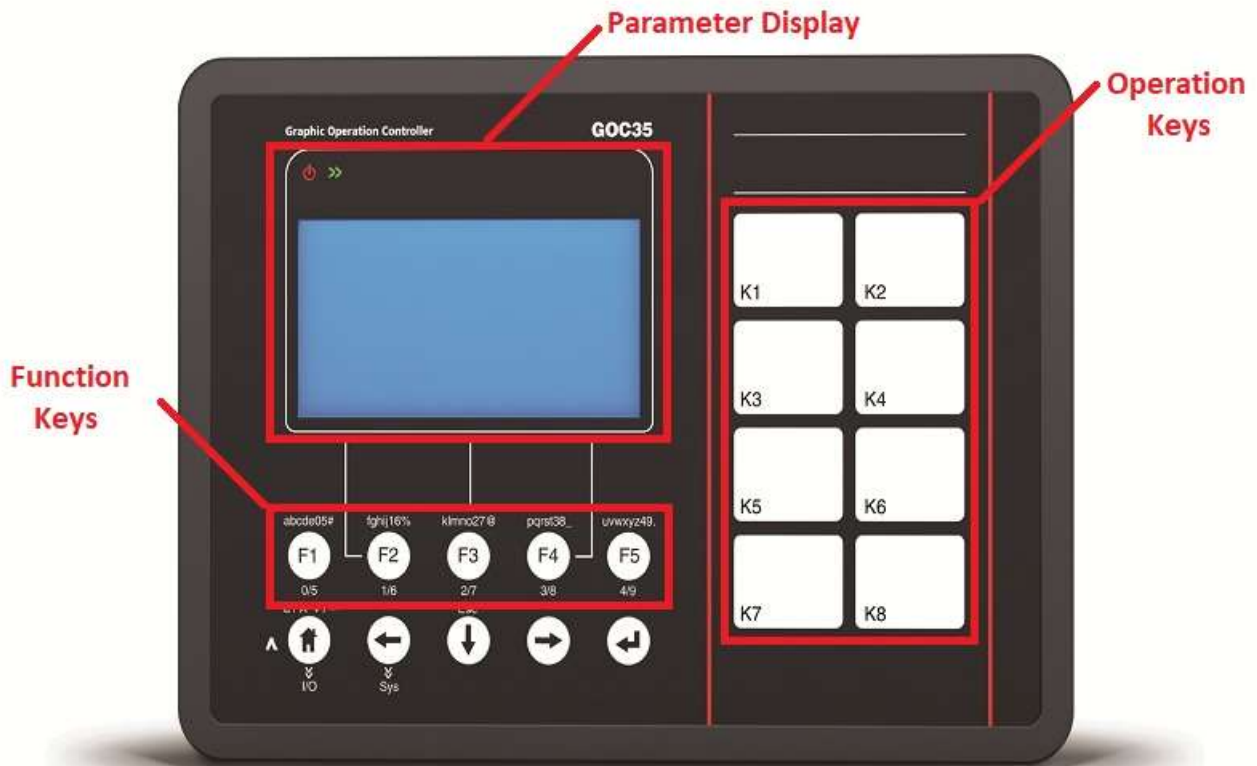




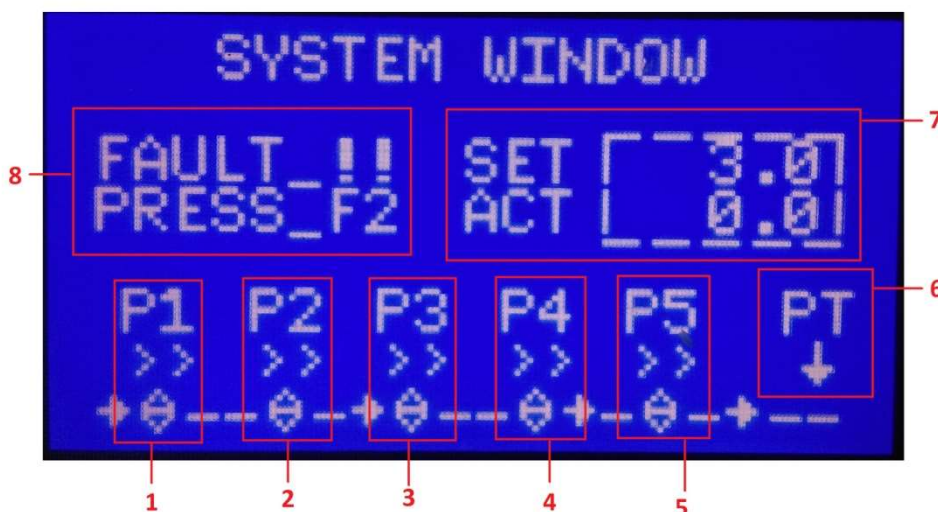
FIXED SPEED TYPE
HYDRO PNEUMATIC SYSTEM
SMPC-S

KEYPAD TYPE GOC PLC

INTRODUCTION



Main screen



- 1 – To show **Pump1** status, when pump 1 will be on it will get changed into the blinking state.
- 2 – To show **Pump2** status, when pump 2 will be on it will get changed into the blinking state.
- 3 – To show **Pump3** status, when pump 3 will be on it will get changed into the blinking state.
- 4 – To show **Pump4** status, when pump 4 will be on it will get changed into the blinking state.
- 5 – To show **Pump5** status, when pump 5 will be on it will get changed into the blinking state.
- 6 – **PT** tends to **Pressure Transmitter**, it shows pressure transmitter are in working state.
- 7 – Monitor **Set Point** value and **Actual** Value.
- 8 – When there is present any kind of fault then screen will show a fault indication.

Set-Point window: we can adjust here lower set point value and higher set point value

```
SET-POINT WINDOW
UNIT:Bar
>LOW SET-POINT    1.5

>HIGH SET-POINT   3.0
MIN:01.5         MAX:16.0
```

Working mode window: Here we can select working and stand by pump mode by function key.

```
WORKING MODE WINDOW
>2WORKING_3STAND  □
>3WORKING_2STAND  □
>4WORKING_1STAND  □
<F4>4Working_1Stand
```

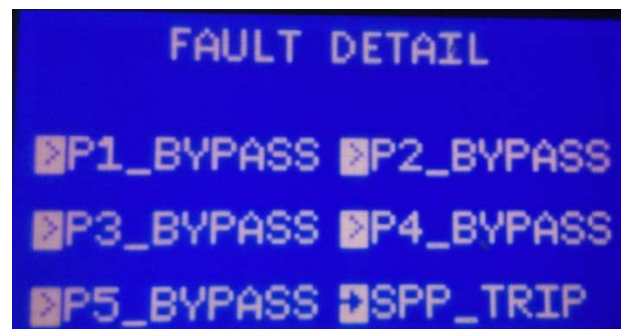
TXD working setting: In this window we can define dry run protection, adjust transmitter failure time (Sec) and cut off pressure (bar).

```
TXD WORKING SETTING
> TRANSMITTER      0
  FAILURE TIME      - Sec
> TRANSMITTER      0.0
  CUTOFF POINT      Bar
```

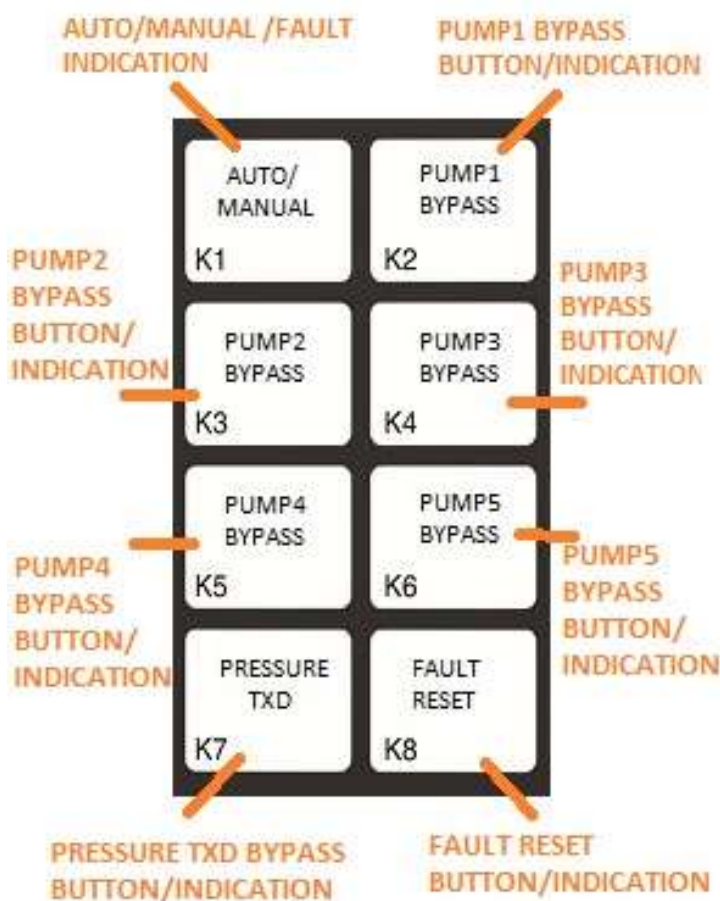
Pump running time: This window shows a running time of all pumps.



Fault Detail: In this window we can check generated fault.



OPERATION KEY DETAIL



Auto/Manual (K1): When system in auto mode then k1 shows a green color indication and in manual mode it will be in yellow color, if any fault will be occur then it will display red color.

Pump1 Bypass (K2): If pump1 are not capable /trip or any kind of reason we have, than we can bypass that pump by pressing this button at 3 seconds then it will change green indication into red color blinking state.

Pump2 Bypass (K3): If pump2 are not capable /trip or any kind of reason we have, than we can bypass that pump by pressing this button at 3 seconds then it will change green indication into red color blinking state.

Pump3 Bypass (K4): If pump3 are not capable /trip or any kind of reason we have, than we can bypass that pump by pressing this button at 3 seconds then it will change green indication into red color blinking state.

Pump4 Bypass (K5): If pump5 are not capable /trip or any kind of reason we have, than we can bypass that pump by pressing this button at 3 seconds then it will change green indication into red color blinking state.


Pump5 Bypass (K6): If pump5 are not capable /trip or any kind of reason we have, than we can bypass that pump by pressing this button at 3 seconds then it will change green indication into red color blinking state.

#Fault Reset (K8): Using this key we can reset fault in manual mode.

PARAMETER SETTING

- 1) Initially it has no mode selection and set value, so firstly we have to set all process parameters.



- 2) Press right  arrow key to move next screen.



- 3) After that set-point window will get appear.



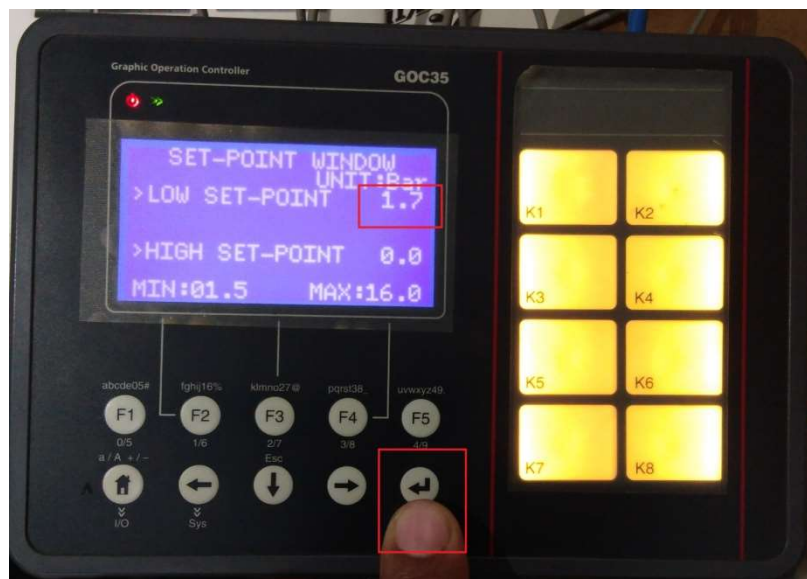
- 4) To set the lower set point value then press the enter button ↵, as shown below:




- 5) After pressing the enter button, cursor will get start blinking on the lower set point numerical value, then set the lower pressure value using function key, we can see there is a numerical value write below on the function key, as shown below:




- 6) After filling the lower set point value, then again press the enter button for conformation to set that value.



- 7) After setting the lower set point value, then set the higher set point value or cutoff value, then press the down arrow  key move to higher set point and follow the above same procedure to set the value.



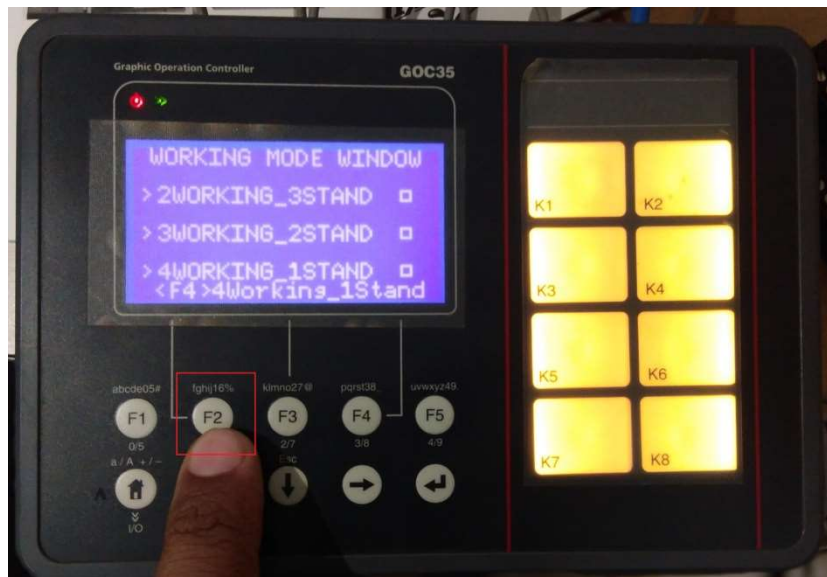
- 8) After setting the higher set point, press right  arrow key to move next screen.



9) After that working mode window will get appear.



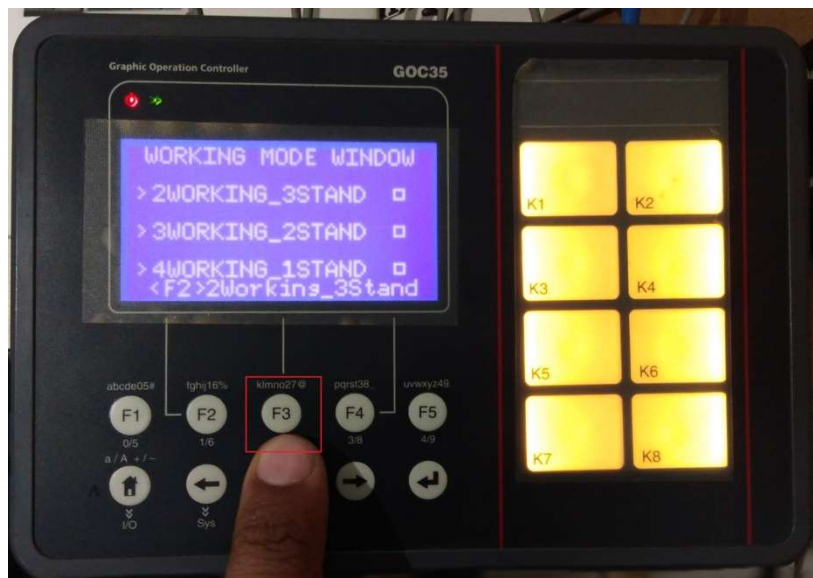
10) After that we have to select working mode condition, if we want to select 2working_3stand mode then press F2 function key, shown below:



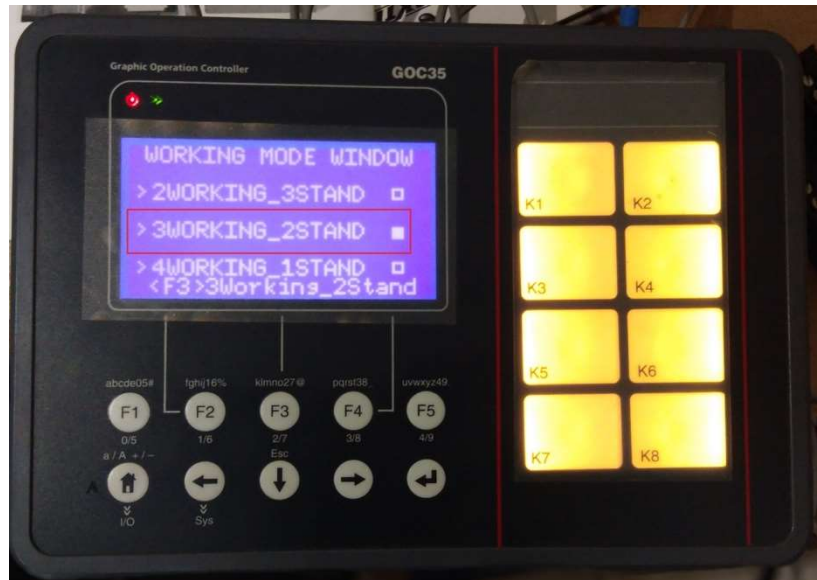
11) After pressing F2, 2Working_3Stand mode will get selected.



12) If we want to select 3working_2stand mode then press F3 function key, shown below:



13) After pressing F3, 3Working_2Stand mode will get selected.




14) If we want to select 4working_1stand mode then press F4 function key, shown below:



15) After pressing F4, 4Working_1Stand mode will get selected.



16) Now after the selection of working stand, we have to set dry run protection condition, press right  arrow key to move next screen.



17) TXD working setting window will get appear.



18) To set the transmitter failure time value then press the enter button ↵, as shown below:



- 19) After pressing the enter button, cursor will get start blinking on the transmitter failure time numerical value, then set the failure time value using function key, we can see there is a numerical value write below on the function key, as shown below:



- 20) After filling the transmitter failure time value, then again press the enter button for conformation to set that value.
- 21) After setting the transmitter failure time value, then set the transmitter cutoff point, then press the down arrow (↓) key move to transmitter cutoff point and follow the above same procedure to set the value.



22) After setting the transmitter cutoff point, press right  arrow key to move next screen.



23) Pump running window will get appear.



24) This window we can monitor the running time of all pump, if we want to reset the running hour then press the function according to the below explanation:-

A) Press F1 for 5sec to reset the pump1 running time.



B) Press F2 for 5sec to reset the pump2 running time.



PARAMETER SETTING MANUAL

C) Press F3 for 5sec to reset the pump3 running time.



D) Press F4 for 5sec to reset the pump4 running time.



E) Press F5 for 5sec to reset the pump5 running time.



25) After done all parameter setting, then back to the system screen by pressing on the home button, as shown below:-

