





# BKP SERIES PANEL USER GUIDE



We manage water. You can use it safely.







## **ATTENTION PLEASE!**

CONTROL PANELS, TO GET THE BEST RESULTSTHIS MANUAL INFORMATION MUST READ CAREFULLY. THIS MANUAL, ALL YOUR PROBLEMS CAN HELP SOLVE

#### THIS USER'S GUIDE :

Control panel use the correct and safe is to help.

- Control panels installation, startup and maintenance operations contains.
- Control panels transport storage and describes the terms of guarantee.
- Control panels read the instructions before using.
- Especially obey the safety instructions.
- Control panels all transactions must be done by qualified personnel in accordance with the user guide instructions.
- All repair and processing warranty made by unauthorized persons terminates.

#### Within Easy Reach Of The Clipboard User Guide Near And Place Should Be

#### PLEASE REMEMBER TO STORAGE



## SAFETY INSTRUCTIONS



This symbol "personal threat" is used to warn you about.



This symbol "dangerous voltage" is used to warn you about.

1 :Read instructions carefully before starting the clipboard.

2 :Follow the instructions in the user guide.

3 :The front panel be careful. The front panel fragile gets hit

4 :Do not install where water can take directly to the clipboard. Any water in the cabinet and Do not spill liquid.Disconnect power the main fuse in the case of water in panel contact the please institutions and authorized person.

5 :Do not operate if any foreign substance enters into the panel. this may cause electric shock or damage to the panel. Entrust panel control by authorized personnel.

6 :Fire risk avoid naked flame Keep away from flammable liquids and materials.

7 :Electrical connection as shown in the user's guide input must be connected to the fuse. Otherwise you may cause serious injury or death as a result of electric shock.

8 :The power cord is damaged, replace the original with the appropriate new cable through authorized service.

9 :Do not use electrical connection cable damaged and torn. Do not place heavy objects on the power cord, and do not make an operation on the cable or injure.Cables may be damaged and may cause a fire or electric shock. In such cases, please contact the authorized person or institutions.

10:See the troubleshooting section in Troubleshooting and fault finding practice immediately and call service if necessary. Never attempt to repair this dashboard.

11:Do not dispose of together with general household waste your clipboard. Please observe local laws and regulations for disposal.

Failure to follow the safety instructions, will void the product warranty.



#### Situations That May Be Harmful For Human And Environmental Health Warnings :

Installation, commissioning and service procedures performed by qualified personnel as long as the board is does not constitute a security risk to any.



- ★ Burns, electric shock, and death may result.
- \* Disconnect the electrical connections to the panel before working on them.
- \* Please do the clipboard the grounding connection.
- \* Relaxation of the electrical connections and electrical leakage may cause injury.

Real manual starting and stopping methods have been described.

- During the re-commissioning of the panel, the departments should operate on.
- "leakage relay"Should be, possible water leaks and splashes clipboard against must installed.
- All electrical wiring must be connected to the clipboard using the protective cover.

#### **Unacceptable Actions :**

On the control panel of design changes must be with made not only the permission of the manufacturer. Control panels are used on the other parts, the manufacturer is not responsible for the consequences of changes.

#### On The Control Panel The Special Security Equipment And Recommendations :



May result in electrical shock or death.



In the wrong intervention to the control panel may cause damage to the panel.

Control panel electronic card in order to protect from external factors is made of plexiglass with a specially designed insulation protection is available.

This protection panels and electronic card intervene must not removed by unauthorized persons.

#### Efficient Use of Energy Saving Information :

Pumps and motors energy-consuming products. Personal causes and is extremely important for the national economy.

Control panel suitable motor and pumps be used.

All electrical connections to the instructions by providing appropriate and accurate; Be provided to prevent any loss and leakage of electricity.



#### Usage Life :

The product is determined by the Ministry of Industry and declared usage life (time required to carry out the functions of the appliance spare parts) 10 years.

## TRANSPORT / STORAGE / MONTAGE

#### Transport :

Handle carefully control panels

Appropriate size of the control panels are shipped in cardboard boxes.

Do not remove the cardboard box inside the control panels during transport.

measure damage to the panel, and bad weather conditions during transport should be taken to avoid exposure.

Received by the panel in order to comply with the model and should be checked for any damage during transport.

If the clipboard contains a damaged or missing damage assessment report should be given written information to the shipping company our company.

#### Storage :

Control panels of instead of immediately montage if not ;

Do not store in damp environments.

Do not put weight on the control panels.

Protect from direct sunlight at the control panels.

Keep out of the control panels watertight.

#### Montage :



When performing mounting, follow the instructions otherwise it may be damaged panels



Montage are not observed instructions during the that as a result of electric shock, serious injury or death may result.



While mounting nuts at the rear of the control panel should be mounted with suitable screws.

Do not mount the back of the board is drilled with another screw. This may cause damage to the electronic card.

Control panel electrical connection must be carried out only by qualified personnel necessary safety precautions.

### **OPERATING**

Control panel electrical connections should be checked.

The control panel should be checked that the cover is closed.

There is power cut, the phases should be checked to be complete.

Control panel settings to be used should be based on pump or motor.

Introduction to the settings menu, you will find that you are using the appropriate settings to the clipboard.

#### **MAINTENANCE**

#### **Monthly Maintenance :**

// Disconnect electrical power before maintenance operations.

Control panel electrical connections should be checked relaxation .

The grounding line of the control panel should be checked.

electric cables, abrasion, puncture should be examined for color change and warming.



## **General Information**

16 Bit microcontroller designed. • 48Mhz, running frequency. 2X16 character LCD (Liquid Crystal Display). Auto test feature. 4 5 Auto test selenoid valve output. **6** 3-phase voltage reading and display on LCD. **7** Voltage protection, possibility to enter the lower and upper settings. 8 Pump current reading and display on LCD. 9 Current protection, possibility to enter the lower and upper settings. 10 Pump circuit, fault and ready to see the status scrren. **11** Recognition mode to calculate the pump current. **12** Possibility to limit te engagement number of the pumps 1 hour. **13** Ability to determine the reset time at automatic resetting. **14** Ability to reset automatically in error cases and to set the reset number. **15** Automatic-manuel selection. **16** Manuel operation when pressing the test button at manuel. **17** Protection agains dry operation without floater ans SSR control. **18** Protection agains dry operation without moment control. **19** Screen to see all the error conditions. **20** Pressure transmitter input and use. **21** Pressure transmitter to monitor the measured value LCD. **22** To adjust the set pressure value. **23)** Tracking the operation time of each pump. **24** The actual run time depends on te co-aging. **25** All pumps belonging to the PTC protection. **26** Waste water to be used as panel (menu option). **27)** Waste water panel water leak terminal. **28** Password protection against unauthorized interference. **29)** Fault recording 20 takes memory.



## FRONT PANEL DESCRIPTION AND USE



1 : 2x16 LCD screen.

- 2 : Up arrow key to move up in the menu ont main screen and provides paging
- 3 : Down arrow key to move down inthe menu provides.
- 4 : Set key to enter the menu and used the changes made in the menu.
- 5 : ESC key to to return to the menu and the menu before a transacton is allowed rise.
- 6 : Automatic run led.
- 7 : Auto Manuel select button.
- 8 : Manuel Run button.
- 9: Lights when pressure switch is start.
- 10: Error lihgt.



## **SETTINGS MENU**



## Voltage Settings High Volt=250V

The Voltage Settings menu appears. When we press the set button once, the above screen appears. The upper voltage text starts to flash. In this case, the value can be changed with the help of the arrow keys. Press the Set button and save the High Voltage set, and the following screen appears automatically.

# Voltage Settings

Low Voltaj=180V

When we press the Lower Voltage Setting set button, the Lower Voltage setting starts to flash, in this case the arrow keysThe value can be changed with the help of Press the SET key, save the lower voltage set and return to the menu page.

# Current Settings

P.1 High =15.0A

In order to change the current settings, press the set button and the current settings appear. Press the set button. P.1 saves the upper current setting by setting, and the following screen appears automatically.

## **Current Settings**

## P.1 Low =01.0A

When the Sub-Stream setting set button is pressed, the P.1 subtitle starts to flash. In this case, the value can be changed with the help of the arrow keys. Press the set key, save the P.1 Sub stream set and return to the menu page.



## **SETTINGS MENU**

# History Fault 01= High Current

From the historical fault information settings menu, with the help of the set button, the past fault information is highlighted, and by pressing the down arrow button, the most recent fault of the device always moves to t he first place. A total of 20 records are stored in memory.

## Language Select

English

Language selection is pressed, set button is pressed, Language Selection is highlighted with the help of the arrow button in the settings menu, and the menu is entered by pressing the set button. The desired language is selected with the help of the arrow keys and automatically saved by pressing the set key.

## Operating Time P1=0h / 0S P2=0h / 0S

Press the Working Hours set button, and in the settings menu, use the arrow key to scroll to the Working Times. By pressing the set button, the menu is entered. The operating time of the pumps is displayed in hours.

# Enter Password

A password is required by the system to enter the general settings. When the set button is pressed, a 4-digit password is requested. If the password is incorrect, the system automatically discards it from the menu. When the password is entered, the screen on the next page appears.



## <u>SETTINGS MENU</u>

## General Settings Voltage On = 05

Press the Set button in the General Settings menu, the text Voltage On starts to flash and the value next to it can be changed with the help of the arrow keys, after the change is completed, by pressing the set button.value is memorized. Arrow keys are used to find the parameter we want to change and when the parameter is hovered, the set key is pressed and the text starts to flash, in this case the value is changed.

**Voltage On =** It is the voltage-on time setting. Waiting time for automatic reset when the voltage values measured when the system is in fault state due to voltage error again within the desired limits.

**Voltage off =** It is the voltage error tripping time setting. When the measured voltage values go out of the set values, it is the waiting time to turn off. It is necessary in order not to take the pump off frequently in case of instantaneous fluctuations.

**SSR On =** It is the liquid level (SSR) reset time setting. It is the waiting time setting for automatic reset when the water comes back when the system is in a malfunction state due to dehydration.

**SSR Off =** It is the liquid level error tripping time setting. When the water in the tank or well runs out, it is the time to wait for the circuit to go out.

**Demerage =** Inrush current time setting. During the period set here, the currents drawn from the moment the pump starts up for the first time cannot be compared with the set values.

**Current Delay =** Current fault trip time setting. When the lower or upper current goes out of the set value, the time setting for stopping the motor is set in seconds.

**Start Delay =** When the signal comes from the pressure switch, the pumps are activated as late as the set time for the time set here.

Stop Delay = When the signal from the pressure switch is lost, it turns off the pumps within the set time.

**Reset Time =** Reset time setting allows us to set how long it waits for the system to be activated again when it fails due to current error. The setting is in seconds.

**Reset-2 =** It is the reset number setting.

Salt = Ability to limit the number of pumps on and off in 1 hour.

Pump Change = It is the changeover time setting for pumps operating in circulation mode.



# **SETTINGS MENU**

# Auto Test Settings Test = Active

The automatic test setting is pressed, the set button is pressed, the test factory setting is passive, when we press the set button, the Test text starts to flash. appears as a clock. The run time setting allows us to set how long (seconds) the pump will run. Pump operation active or passive option is selected by pressing the arrow key and the set key is pressed, it automatically saves.

# Transmitter Set There is Sensor

Transmitter Setting is adjusted with the help of arrow keys while the text "Sensor available or No sensor" is flashing, and it is stored by pressing the Set key. If the sensor is selected, the system now works with the transmitter and does not read the pressure switch input.

Maximum = Pressure transmitter maximum (label) value, enter 16 bar for 16 bar transmitter.

Set Valuei = Pump stop set pressure value.

**Hys Value =** Pressure hysteresis adjustment. For example, if our set pressure is 8.0 bar hysteresis 1.0, then 1 pump works at 7.0 bar, 2 pumps work at 6.0 bar, and 3 pumps at 5.0 bar.

# Operation Mode Select Hydrophore

Operation Mode Selection, operation selection is made with the help of arrow keys according to the pump used. Press the set button and it will save automatically.

Hydrophore = Standart hidrofor motorlarında bu mod seçilmelidir.

**Hydrophore + Ptc =** If there is PTC protection in booster pumps, this mode should be selected. Otherwise, PTC protection will not do..

P + Joker = It is the choice of 1 main and 1 wildcard in fire systems.

**Waste Water =** This mode should be selected for wastewater pumps. When this mode is selected, water leakage and Ptc inputs are active.

**Waste Water Stop Fit =** In the selection of waste water with stop floater, water leakage and Ptc inputs become active and the system stops according to the stop floater.



# Floater / SSR Secim Floater

Floater / SSR selection is the float or SSR electrode protection selection setting of the device. Selection is made with the help of the arrow key and saved by pressing the set key.

# **CONNECTION DIAGRAM**













## WARRANTY

Principles specified in this user guide, instructions, standards-compliance No other institution and contact an authorized service maintenance, repair or other reasons, provided that untreated The materials used on the control panel manufacturer; workmanship, assembly and manufacturing defects user Company is subject to the terms of warranty.

#### **Outside the Remaining Extent of Warranty Conditions :**

- 1. Warranty terms and conditions only on the invoice in writing the product / products covers.
- 2. User errors, failures and damages that occur.
- 3. Misuse damages use and malfunctions.
- 4. Incorrect installation, incorrect or incomplete damage and faults caused from installation made
- 5. Shipping, vibration, storage, physical collisions, damage and malfunction caused by chemical factors, and environmental conditions.
- 6. Fire, lightning, floods, earthquakes and other natural disasters damage and malfunctions.
- 7. Failures and damages caused intentionally harming.
- 8. Incompatibility or lack of damage to the cables used in electrical installations and faults.
- 9. In the Product's user guide for damage and malfunctions occurring against the issues.
- 10. The interventions given to the product by unauthorized persons to the product warranty expires.

### **CAUTION**

Please obey this user guide and following subjects for safety use.

- All energy should be cut-off while device connecting to panel.
- Solvent or similar matter use when cleaning.
- Check the connections according to connection diagram.
- Defective device should repair only producer company or authorized seller.

III The company or authorized seller is not responsible for bad result which born of these unperformed conditions.



# **TECHNICAL DETAILS**

Operating Voltage (Un)	230V – 380VAC
Operating Frequency	50/60Hz.
Working Power	<6VA
Operating temperature	-20°C to 55°C
Voltage Measurement Range	10-500V AC
Measurement Accuracy	%±1
DelayTime setting	1-30 sec.
Indicator	2X16LCD screen and leds
Connection style	Terminal connection
Ignition	5A/250VAC Resistive Load
Connection Insulation	2.5kV
Assembly	On the pump or on the wall
Protection Class	lp55
Working Altitude	<2000meter



# **QUALITY CERTIFICATES**



OLUMILU / Ayrentilar aşağıdaki sayfalarda verilmiştir. POSITIVE Detais, are given on the following pages which are part of this rep Açıklamalar Remarka

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27.07.2018



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