



Control Panels for Pump Systems

AVS - Variable Speed Control Panel

AVS is a pump control panel having 4.3" TFT touch screen, uniquely designed high efficient variable speed control and relay board. The touch control panel is located on front casing while relay module is located inside. Other than these, Manual / Auto / Off Selection Button, Manual Control Buttons (instead of these buttons, an additional control board is used for applications more than 11 kw) and Interlock Switch are available on front casing.

AVS panel provides control and screen up to 6 pumps with the help of EPLC-6 control system, relays and switching components. System parameters can be changed on touch screen with user-friendly interface. AVS Panel can be used on constant pressure booster or differential pressure circulation systems with the help of receiving data from an analog pressure sensor. The panel especially is recommended to use with frequency inverted pump applications. Apart from that, it is also possible to use the panel on constant cycle pump systems.





Specifications
Epoxy coated DKP steel body
IP 54 protection class
Manual / Autorun option
Phase absence / unbalance /sequence protection by phase protection relay
Waterless run protection on booster applications by external floater connection
Remote control option via dry contact
Possibility to send Run, Thermal Fault, General Fault data to Building Management System (BMS) for each pump individually
Possibility to transfer system parameters to Building Management System (BMS) via Modbus RS485 data communication protocol
Enabling to control up to 6 cascade assembled pumps by 1 frequency inverter and uniquely designed controller with 4,3" TFT touch screen
Ability to view; number of pumps working, pump mode, driver frequency, set pressure, instant pressure, fault indications and date-time information
Preventing unauthorized access thanks to password protection support
Ability to view working hours of each pump
Capability of collecting data with high precision using advanced pressure sensor calibration and off-set menu
High pressure protection with adjustable value and duration
Low pressure protection with adjustable value and duration against low water level and Cavitation
Optimum reaction time according to system needs with the help of adjustable pump on/off Time
Adjustable wake-up pressure
Adjustable cyclic change over time
Manual pump back up
Booster and circulating mode selection
Selection mode of with/without driver
Ability to run pumps with maximum speed via mains supply contactors in case driver in fault mode
Ability to run pumps with maximum speed via mains supply contactors in case driver in fault mode preventing system blockage
Adjustable PID reaction speed
Adjustable maximum driver working frequency
Adjustable minimum inverter working frequency
Periodic maintenance reminder
Turkish / English language option
Adjustable driver switch off frequency value on frequency inverted systems
Interlocking switch system
100 events history logging capacity
Real-time date / time information

12 V DC internal isolated 4-20 mA transmitter supply and 2 transmitter inputs

EHP - Constant Speed Control Panel with Star Delta Transformation

EHP is a constant speed booster systems control panel having uniquely designed electronic board with a 128*64 graphical LCD. On the panel front cover; control board, MAN / 0 / AUTO selective button, visual warning lights and interlocking switch are available. The panel contains EHP control board inside can operate and display the modes on screen with the help of peripheral components such as relays and contactors up to 6 pumps. Parameters about the system can be easily via settings menu in the graphical LCD.

EHP Panel puts the pumps on service according to the signal triggered by pressure switches in order to provide desired pressure.





Specifications

Epoxy coated DKP steel body

IP 54 protection class

Interlocking switch system

Schneider switching components

ON / OFF with selective button placed on the front panel

Phase absence / unbalance /sequence protection by phase protection relay

Possibility to display Phase-Phase or Phase-Neutral supply voltage on screen

High and low voltage protection

Thermal-magnetic motor protection

Adjustable duration and number of switch

Low current protection against dry running operation

Additional dry running protection on booster applications by external floater connection

Ability to run with external pressure switch

Ability to transfer system operation data via the Modbus RS485 communication protocol through Modbus

Control up to 6 pumps with exclusively designed PLC featuring a 128*64 graphical screen

Monitoring variables such as the pump count, the pump operating status, the mains voltage and the data&time on the main operating screen

Preventing unauthorized access thanks to password protection support

Possibility to view pump operation time and number of switchings for each pump

High pressure protection with adjustable value and duration

Adjustable pump activation deactivation period

Setting pump mutual aging period

Deactivating pump manually

Periodic maintenance reminder

Turkish / English language option

100 events history logging capacity

Real-time date&time

Weekly test

Sending 'running', 'thermal error' and 'general error' information to the BMS (Building Management System) individually for each pump through dry-contact (optional)

EN 12845 Electrical Fire Fighting Unit Control Panel

ETNA Fire fighting electric pump automatic control panel having LCD screen is designed to be in compliance with EN12845 with star/delta start, equipped with electronic control unit with digital instruments, warnings and communications on LCD display and with RS- 485 serial connection for remote warnings.



Specifications
Epoxy coated DKP steel body
Nominal mains voltage 400 VAC
Operating Frequency 50/60 Hz
Manual / Auto run option
Phase absence / unbalance / sequence detection by phase protection relay
3 Mains Voltmeters (Max 570 V Precision ± % 2)
3 Ammeters (Possibility for the connection of a single ammeter, Max 1000 a precision ± % 2)
Mains Frequency Meter (0 / 85 Hz Precision ± % 2)
Wattmeter (Active Power)
Varmeter (Reactive Power)
Voltammeter (Apparent Power)
Cosphimeter (Power Factor)
Total Hour Meter (Total Hours Of Pump Operation)
Partial Hour Meter
Star / Delta Start Command
Impedance Start Command
Button For Test Of The Warning Lights
Start Stop Buttons
Historical Report
Schneider Switching Instruments
Modbus Serial communication (9600 Baud, 8 bit stop, EVEN parity)



EN 12845 Diesel Fire Fighting Unit Control Panel

ETNA - Automatic control panels for diesel engine pumps conforming to standard EN12845, having electronic control unit equipped with electrical instruments, warnings and communications on LCD display and with RS-485 serial connection for remote warnings, fitted internally with 3A battery charger.



Spec	ifications
Epox	y coated DKP steel body
2 pcs VDC	battery , supply voltage 12 VDC and 24
Supp Frequ	ly Voltage 8/32 VDC Operating Jency 50/60 Hz
Syste , 40 n	m load during Motor OFF 70 mA at 12 V nA at 24 V
Maxir	mum load 130 mA at 12 V ,70 mA at 24 V
Time	Display 4 digits
Tacho	ometer 4000 rpm ± 15 rpm
Batte	ry charger voltmeter 38 V ± %5
Batte	ry charger ammeter 99 A ± %5
Fuel I	evel sensor precision %2
Oil pi	ressure sensor precision %2
Wate	r temperature sensor precision %2
Manu	ual Start / Stop Button
Mode bit da	ous Serial communication (9600 Baud, 8 ata, 1 bit stop, EVEN parity)
Total Oper	Hour Meter (Total Hours Of Pump ation)
Partia minu	l Hour Meter (Operating hours and tes of the last run)
Schn	eider Switching Instruments



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