



Electric Construction  
Tourism Industry and  
Trade Limited Co.



Pump Control Systems



We manage water.  
You can use it safely.

*Electrical Fire  
Control Panel*



## NFPA 20

NFPA 20 is the safety standard governing the installation of stationary fire-pumps for fire protection. It specifies guidelines for selecting and installing fire pumps to ensure they deliver adequate and reliable water supplies in the event of a fire. NFPA is short for “National Fire Protection Association”. This body covers all firefighting equipment in any building, platform or anywhere else in the US. It is widely accepted worldwide as a controlling document. Fire fighting system designs in Turkey are made according to NFPA standards. Insurance companies want solutions designed in accordance with NFPA 20 Standards.

Krk Elektrik (BLACKSTN) produces fire pump panels in accordance with NFPA 20 standard in order to meet national and international demands with more than 30 years of production experience and expert sales staff.

## 1. General Product Informations

Fire pump control panels which serve as the heart of fire installations are designed to control and monitor electrical or diesel engines of fire pumps, for many years in accordance with international standards. Fire pump control panels generally monitor the status of the line and start the fire pump when it receives a signal from the pressure switch. They cannot be used to meet the other water needs of their facility. Pump jams and malfunctions in electrical or mechanical parts may occur due to long periods of inactivity. It is important to be able to see and intervene on time. It is important to be able to anticipate these malfunctions and take action in a timely manner. For this reason, they should be tested by running once a week. Test system is available in all our fire panels. One of the important tasks of fire pump control panels is the transmission of status/failure information audibly and visually. This process not only informs the operator in case of fire or faulty pump start, but also allows early intervention in possible failure situations.

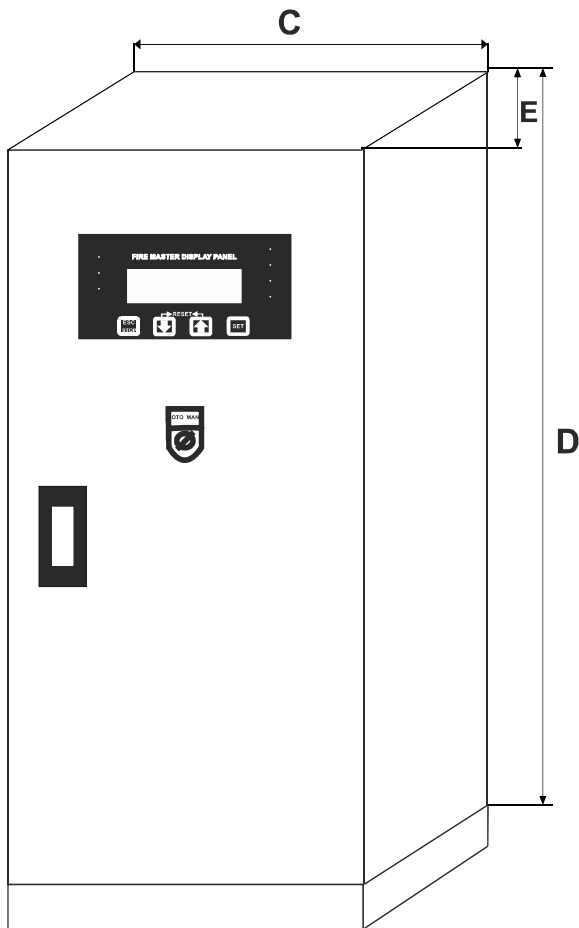


Figure 1: NFPA 20 Electrical Fire Panel Inner View



## Specifications

- 1** 16 bit microprocessor based design
- 2** 48 Mhz operating frequency.
- 3** 64 Kb Rom memory and 1024 byte Eeprom.
- 4** 4x20 Character Blue Screen LCD
- 5** Displaying the date and time information on the screen
- 6** Ability to automatically self-test 2 days a week (real time clock)
- 7** Automatic test solenoid valve output
- 8** Measuring 3 phase voltage values and displaying them on the screen.
- 9** Ability to select active and passive voltage protection
- 10** Ability to set voltage protection upper and lower values.
- 11** Ability to display pump currents from the screen
- 12** Ability to select active and passive current protection
- 13** Ability to adjust current protection upper and lower set values
- 14** Automatic reset if current protection is selected active
- 15** Ability to adjust the number and time of current protection reset
- 16** Protection against dry running by floater. Active, passive selection
- 17** Suction and discharge valves are closed warning
- 18** Ability to work with remote start
- 19** All error conditions can be seen on the LCD screen
- 20** Storing the past 20 events with time and date
- 21** Ability to display the pump running times on the screen.
- 22** Ability to display number of switchgear
- 23** Password protection against unauthorized access
- 24** Adjustable pump stop delay (10 sec. 240 hour)
- 25** Reporting all malfunctions and operating conditions with relay contact
- 26** Ability to use with pressure transmitter.
- 27** Ability to see the pressure value on screen when using with pressure transmitter.
- 28** Adjustment of set pressure value when using pressure transmitter.
- 29** Turkish Usage Menu
- 30** Normally closed or normally open type pressure switch selection
- 31** Modbus 4800-9600-19200-38400 baudrate
- 32** Modbus (RTU) Communication Protocol
- 33** Modbus Menu Access



POWER	C	D	E
<b>7,5-11kW</b>	450mm	500mm	170mm
<b>15kW</b>	450mm	500mm	170mm
<b>18,5kW</b>	450mm	500mm	170mm
<b>22kW</b>	450mm	500mm	170mm
<b>30kW</b>	550mm	600mm	170mm
<b>37kW</b>	550mm	600mm	170mm
<b>45kW</b>	550mm	600mm	170mm
<b>55kW</b>	550mm	600mm	170mm
<b>75kW</b>	700mm	1000mm	320mm
<b>90kW</b>	700mm	1000mm	320mm
<b>110kW</b>	700mm	1000mm	320mm
<b>132kW</b>	1000mm	1300mm	380mm
<b>160kW</b>	1000mm	1300mm	380mm
<b>200kW</b>	1000mm	1300mm	380mm
<b>250kW</b>	1400mm	1500mm	400mm
<b>315kW</b>	1400mm	1500mm	400mm

Figure 2 : Panel Dimensions

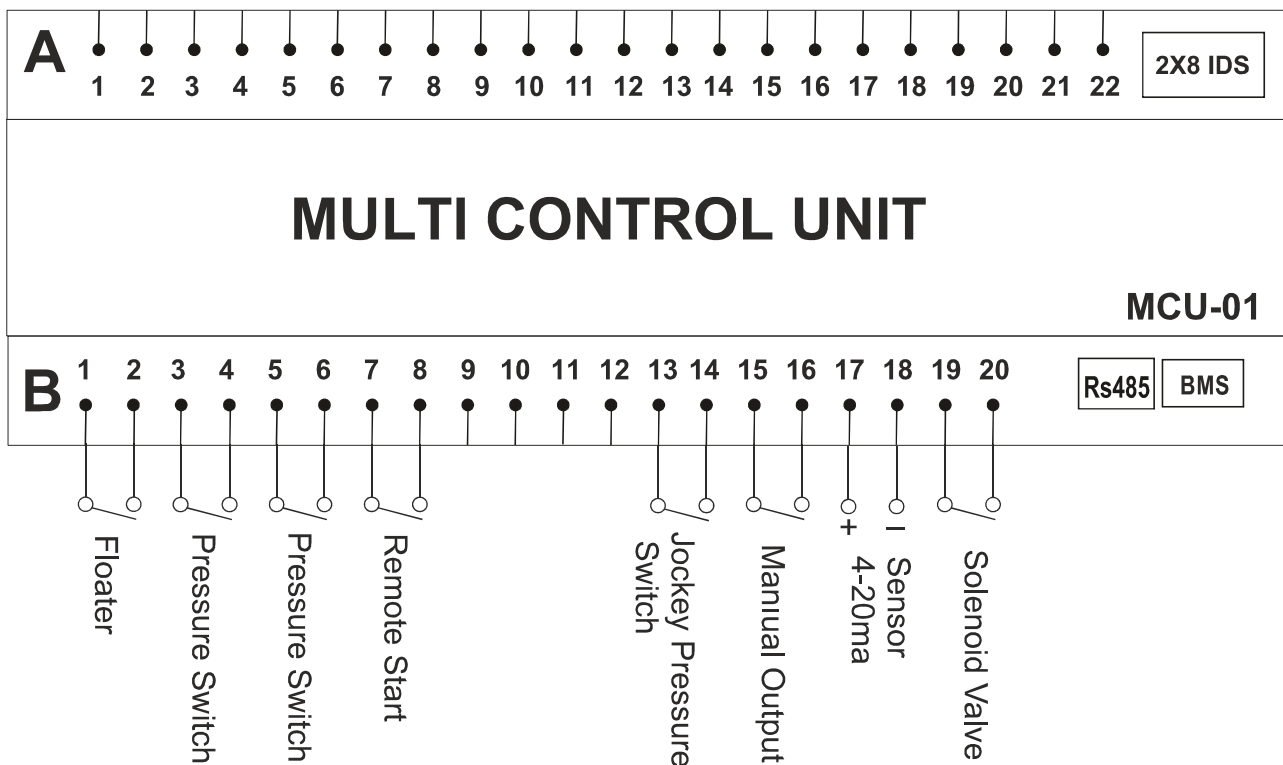


Figure 3 : Connection Diagram





## CERTIFICATE

### Attestation of Conformity

<b>Name and Address of Certificate Holder:</b> KRK ELEKTRİK İNŞ. TURZ. SAN. VE TİC. LTD. ŞTİ. Esenler Mah. Gözde Sok. No:1 Pendik / İSTANBUL	<b>Certificate Number:</b> SE-226-06
<b>Name and Address of Manufacturer:</b> KRK ELEKTRİK İNŞ. TURZ. SAN. VE TİC. LTD. ŞTİ. Esenler Mah. Gözde Sok. No:1 Pendik / İSTANBUL	<b>Date of Issue:</b> 27-01-2020
<b>Brand:</b> BLACKSTN	<b>Expiration Date:</b> 27-01-2021
<b>Product Name:</b> Electric Fire Pump Controller Panel with NFPA	<b>Test Report Number:</b> LVD-226-02
<b>Model No:</b> Y.NFPA01E/D55 Y.NFPA01E/YU70 Y.NFPA01E/YU11 Y.NFPA01E/YU15 Y.NFPA01E/YU18 Y.NFPA01E/YU22 Y.NFPA01E/YU30 Y.NFPA01E/YU37 Y.NFPA01E/YU45 Y.NFPA01E/YU55 Y.NFPA01E/YU75 Y.NFPA01E/YU90 Y.NFPA01E/YU110 Y.NFPA01E/YU132 Y.NFPA01E/YU160 Y.NFPA01E/YU185 Y.NFPA01E/YU200 Y.NFPA01E/YU250 Y.NFPA01E/YU315	<b>Page:</b> 1 of 1
<b>Test Required:</b> EN 60204-1:2006/AC:2010	

The product meets the technical requirement of the above standards and hence fulfils the technical requirements of the following directives:

**2014/35/EU Low Voltage Directive**

This certificate is only valid for the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirement for the product.

The CE Mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.





CGS TEST HİZMETLERİ TEKNİK KONTROL VE BELGELENDİRME ANONİM ŞİRKETİ  
KAYISDAĞI MAH. GÖZÜM SOK. NO:2/2 ATAŞEHİR/İSTANBUL/TÜRKİYE



**LVT Test Laboratuvarları Ltd. Şti.**  
 www.lvt.com.tr  
 Saray Modern Keresteciler Sanayi Sitesi 4. Cadde No:9 Kazan / ANKARA  
 Tel: 0 312 815 13 25-26 Faks: 0 312 815 13 27



### DENEY RAPORU

Test Report

1/30

<b>Müşteri</b>	: KRK ELEKTRİK İNŞ. TURZ. SAN. ve TİC. LTD. ŞTİ.
<b>Adres</b>	: ESENLER MAH. GÖZDE SOK. NO:1 PENDİK/İST
<b>İmalatçı</b>	: KRK ELEKTRİK İNŞ. TURZ. SAN. ve TİC. LTD. ŞTİ.
<b>Deney Numunesi</b>	: DZL-02
<b>Marka</b>	: BLACKSTN
<b>Deney Metodu</b>	: TS EN 61000-6-1:2011 (EN 61000-6-1:2007) TS EN 61000-6-3:2007/1/AC:2013 (EN 61000-6-3:2007/1/AC:2012)
<b>Deney Tarihi</b>	: 29.11.2018 – 24.12.2018
<b>Toplam Sayfa Sayısı</b>	: 30

Deney laboratuvarı olarak faaliyet gösteren LVT Test Laboratuvarları Ltd. Şti. TÜRKAK' tan AB-0341-T numarası ile IEC/ISO TS EN 17025:2012 standardına göre akredite edilmiştir.  
 LVT Test Laboratuvarları Ltd. Şti. accredited by TÜRKAK under registration number AB-0341-T for IEC/ISO 17025:2012 as test laboratory.  
 Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanınma anlaşmasını imzalamıştır.  
 The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.  
 Deney ve ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (talep halinde) ve deney metotları, bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.  
 The test and/or measurements results, the uncertainties (if required) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür Seal	Tarih Date	Deney Sorumlusu Person in Charge of Test	Laboratuvar Müdürü Head of Testing Laboratory
	31/12/2018	Tarkan DILMAÇ	Cahit GÖKSEL
			

Bu rapor, Laboratuvarımızın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.  
 İmzasız ve mühürsüz raporlar geçersizdir.  
 This report shall not be reproduced other than in full except with the permission of the laboratory.  
 Testing reports without signature and seal are not valid.  
 FRT.50/Rev00/1018

**EN 60204-1**

**Safety of machinery – Electrical equipment of machines**

**Part 1: General requirements**

<b>Report reference No</b>	: LVD-226-01
<b>Date of issue</b>	: 2018-12-28
<b>Total number of pages</b>	: 10 pages
<b>Testing Laboratory</b>	: CGS TEST HİZMETLERİ TEKNİK KONTROL VE BELGELENDİRME ANONİM ŞİRKETİ
<b>Address</b>	: ORUÇREİS MAHALLESİ TEKSTİLKENT CADDESİ TEKSTİLKENT A21 10/1 102 ESENLER İSTANBUL/TÜRKİYE
<b>Testing location</b>	: LVT TEST LABORATUVARLARI
<b>Address</b>	: Saray Modern Keresteciler San. Sit. 4.Cad. No:9 Saray-Kahramankazan/ANKARA
<b>Applicant's Name</b>	: KRK ELEKTRİK İNŞAAT TURİZM SANAYİ VE TİCARET LIMITED ŞİRKETİ
<b>Address</b>	: Esenler Mah. Gözde Sok. No.1 Pendik - İSTANBUL
<b>Test specification</b>	
<b>Standard</b>	: EN 60204-1:2006/AC:2010
<b>Test procedure</b>	: Type Test
<b>Non-standard test method</b>	: N/A
<b>Test Report Form No.</b>	: F510_02_R3.0
<b>Test item description</b>	
<b>Trademark</b>	: Fire Diesel Control Panel
	
<b>Manufacturer</b>	: KRK ELEKTRİK İNŞAAT TURİZM SANAYİ VE TİCARET LIMITED ŞİRKETİ
<b>Model and/or type reference</b>	: DZL-02
<b>Rating(s)</b>	: 230 /60V AC; 50 Hz

## Quality Certificates



F510\_02\_R3.0

www.cgsistemkerzi.com

Tel: 0212 438 51 33

