

# MK ENGINEERING AND TECHNOLOGY

 [www.mkeengineering.com](http://www.mkeengineering.com)

 [www.mkebd.com](http://www.mkebd.com)





## OUR VISION

To be the leader and pioneer in industrial, commercial, residential & RMG sector for fire safety, security and innovative engineering service in our country.

## OUR MISSION

To empower customer to secure life, property and business by delivering high quality and innovative fire protection solutions and knowledge using world class working processes through best engineering practice and expand it country wide














































## OUR STRENGTH

We are professional & Specialist with strong background in Fire Protection and Detection System providing safety & security system.

The quality of our product is Excellent & Listed by UL, FM, LPCB, BS kit mark & comply with all other standard.

Our work man ship & performance is remarkable & reputed.

## PRODUCTS PORTFOLIO OF MK ENGINEERING AND TECHNOLOGY

SL	PRODUCTS NAME	LOGO	PRINCIPLE'S	ORIGIN
01	FIRE DETECTION SYSTEM	 <b>Honeywell</b> <small>THE POWER OF CONNECTED</small>	HONEYWELL	
		 <b>COOPER</b>	COOPER	
		 <b>TRIGA</b>	TRIGA	
		 <b>Simplex</b>	SIMPLEX	
		 <b>HOCHIKI</b>	HOCHIKI	
		 <b>GST</b> <small>United Technologies</small>	GST	
		 <b>LIFECO</b> <small>FIRE &amp; SAFETY EQUIPMENT CO. LTD.</small>	LIFECO	
02	FIRE HYDRANT & SPRINKLER SYSTEM	 <b>BRISTOL</b> <small>Fire Engineering</small>	BRISTOL	
		 <b>NAFFCO</b> <small>PASSION TO PROTECT</small>	NAFFCO	
		 <b>LIFECO</b> <small>FIRE &amp; SAFETY EQUIPMENT CO. LTD.</small>	LIFECO	
		 <b>AE</b>	AE	
		 <b>MECH</b> <small>FM</small>	MECH	
		 <b>EMACO</b>	EMACO	
03	FIRE PUMP SYSTEM	 <b>BRISTOL</b> <small>Fire Engineering</small>	BRISTOL	
		 <b>NAFFCO</b> <small>PASSION TO PROTECT</small>	NAFFCO	
		 <b>LIFECO</b> <small>FIRE &amp; SAFETY EQUIPMENT CO. LTD.</small>	LIFECO	
		 <b>EBARA</b>	EBARA	
		 <b>AC FIRE PUMP</b>	AC FIRE PUMP	
		 <b>PATTERSON FIRE PUMP</b>	PATTERSON FIRE PUMP	
04	P.A. SYSTEM	 <b>BOSCH</b>	BOSCH	
		 <b>TOA</b>	TOA	
05	SMOKE MANAGEMENT SYSTEM	 <b>Kruger</b>	KRUGER	
		 <b>NICOTRA</b> <small>Gebhardt</small>	NICOTRA	
		 <b>systemair</b>	SYSTEM AIR	





## FIRE RATED DOOR Fire Door Certified Hardware



Hinges



Door Closer



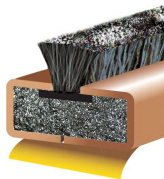
Door Coordinator



Door Lock



EM Lock



Smoke Seal



### Fire Door Size

Single Door Size	Double Door Size	Double Door Size
W 900mm x H 2100 mm	W 1500mm x H 2100mm	W 2400mm x H 2100 mm
W 900mm x H 2400 mm	W 1500mm x H 2400mm	W 2400mm x H 2400 mm
W 1000mm x H 2100 mm	W 1800mm x H 2100mm	W 2400mm x H3000mm
W 1000mm x H 2400 mm	W 1800mm x H 2400mm	
W 1200mm x H 2100 mm	W 2100mm x H 2100mm	W /VISION PANEL SIZE
W 1200mm x H 2400 mm	W 2100mm x H 2400mm	1 X (200 X 300)mm]

### Fire Door Color Chart

RAL 3020	RAL 3000	RAL 5015	RAL 9010	RAL 1013	RAL 8003	RAL 7032	RAL 7044	RAL 9001	RAL 9006	RAL 8028	RAL 7038	RAL 8025

Ready stock-all accessories are available, Contact : +88 01749-825715

# FIRE DETECTION & ALARM SYSTEM



*Your Safety, Our Technology*

Powered by:



# FIRE DETECTION & ALARM SYSTEM

Power By :

# TRIGA



# Honeywell

THE POWER OF **CONNECTED**



Triga  
Control Panel



Multifunctional Panel  
Si-90



Aura  
Control Panel

## State of Art in Reliability

### Triga Control Panel

UL864 (10th edition) Listed & FM Approved.  
159 sensors & 159 devices per loop.  
Flexible Addition of SLC loopexpanders Via SBUS.  
Expandable to 32 node in Network.  
Supporting over 67,200 Points on a single Peer to peer network.

### Aura Control Panel

UL864 (10th edition) Listed.  
2 to 8 loop or 2 to 16 loop versions  
Programming via USB port to PC or  
memory stick.  
5.25 A or 10.25 A power supply options.  
Over 50,000 inputs and outputs.



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# FIRE DETECTION & ALARM SYSTEM

**Honeywell**  
THE POWER OF CONNECTED



**COOPER**



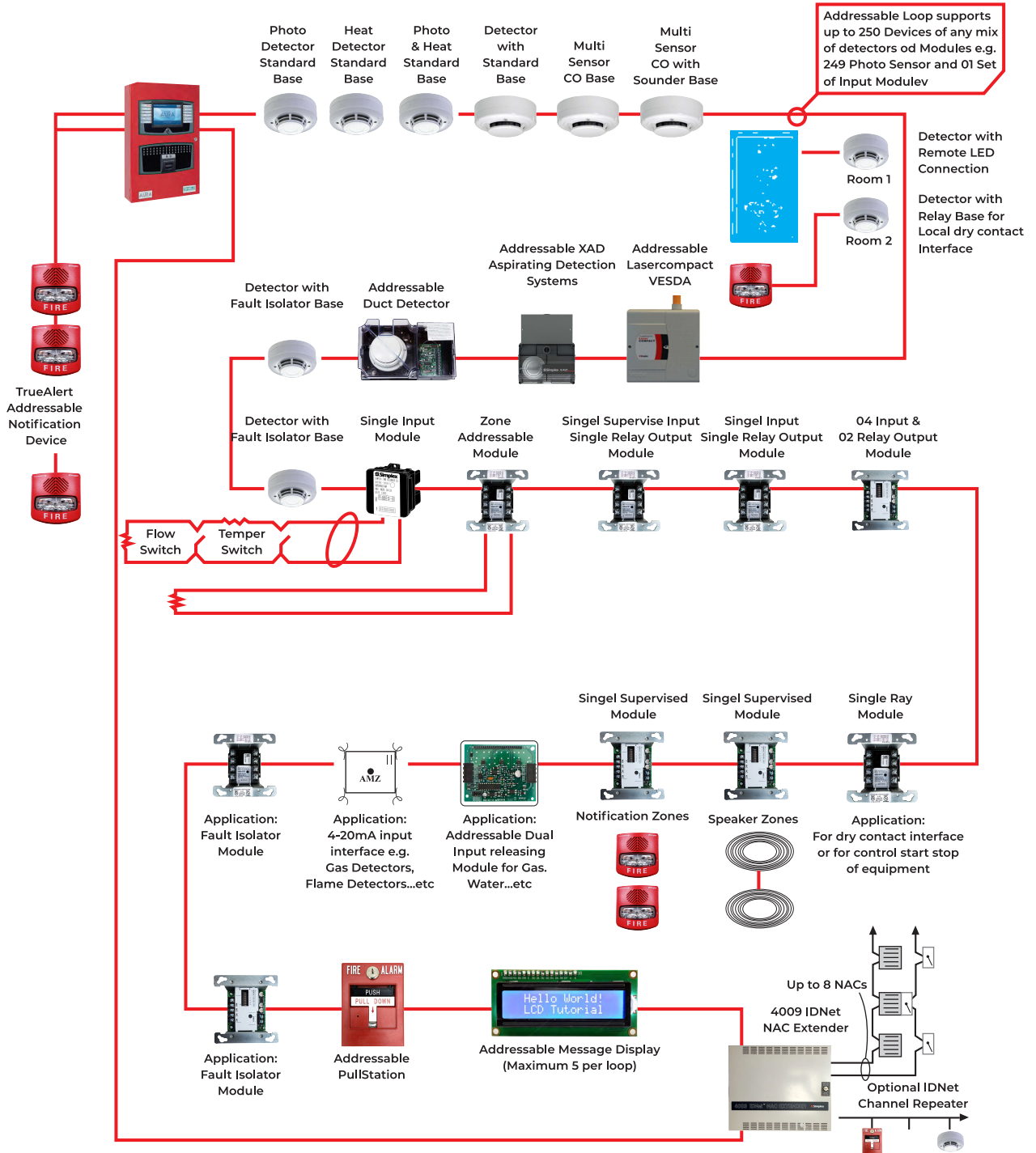
**TRIGA**



**Simplex**



**HOCHIKI**



Network System Diagram



# PREMIUM FIRE PERFORMANCE CABLE

**EMACO**



**SHIELD**  
Trusted Worldwide



**LI**®

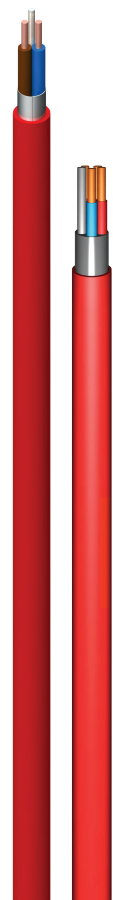


Introducing Premium Fire Performance Cable-independently approved by LPCB to meet all fire and fume emission testing detailed by BS 5839-1:2013

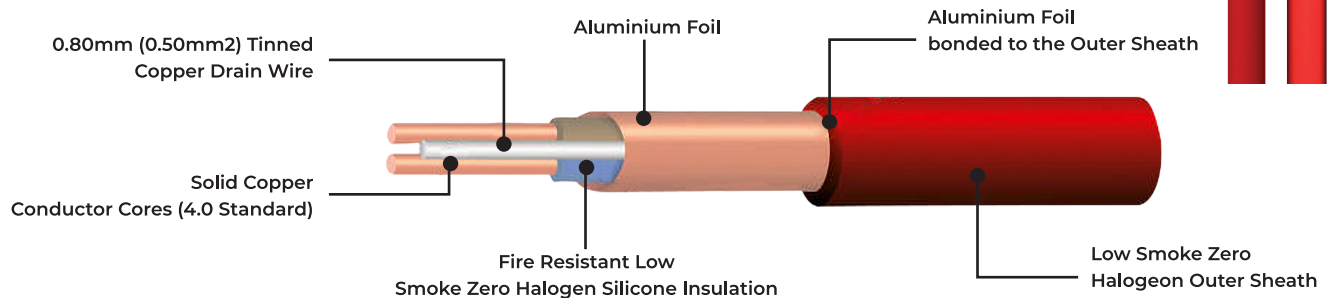
Certified by LPCB to meet fire test standards- BS EN 50200:2006 + Annex E 30 minutes, BS EN 50200 PH30, PH60 & PH120 & BS 6387 CWZ. It is also fully approved to the low smoke & Zero Halogen Requirement detailed by BS 5839-: 2013 & BS 7629-1:2008.

Premium cable retains continuity for 30 minutes under fire conditions at 830°C this demanding fire cable test includes a final 15 minutes under fire & water spray conditions while a mechanical shock is applied every 5 minutes throughout the full 30 minutes test.

Also approved to meet a 3 hours fire only duration test at 950° and a 2 hour duration test with fire and mechanical shock applied every 5 minutes at 830°C.



Manufacturer warranty 10 years



Sheath	Conductor	Z Core- 100m	Z Core- 500m
Red	1.0mm <sup>2</sup>	SD-XPC210-R100	SD-XPC210-R500
	1.5mm <sup>2</sup>	SD-XPC215-R100	SD-XPC215-R500
	2.5mm <sup>2</sup>	SD-XPC225-R100	SD-XPC225-R500
White	1.0mm <sup>2</sup>	SD-XPC210-W100	SD-XPC210-W500
	1.5mm <sup>2</sup>	SD-XPC215-W100	SD-XPC215-W500
	2.5mm <sup>2</sup>	SD-XPC225-W100	SD-XPC225-W500



Other Sizes and Sheath Colours Available.

Stock available, Contact : +88 01749-825715





**BRISTOL**  
Fire Engineering

**NAFFCO**  
PASSION TO PROTECT

**LICHFIELD**  
FIRE & SAFETY  
EQUIPMENT  
CO. LTD.



**UL** **MECH**

**EMACO**

## FIRE STANDPIPE, HYDRANT AND SPRINKLER SYSTEM

We competitively perform a full range of projects, for small, medium and large standpipe, hydrant and sprinkler supply & Installation. We have achieved a reputation for completing projects on time and within budget, as per guidelines of NFPA, IFC and BNBC. Our projects have covered residential, commercial and industrial buildings in local and abroad.



Fire Hose



Fire Hydrant



Fire Brigade Connection



Fire Sprinkler



Valves Wafer



Fire Hose Rack



Gate Valve



Pressure Reducing

Ready stock-all accessories are available: +88 01749-825715



# FIRE PUMP SYSTEM

**BRISTOL**  
Fire Engineering

**NAFFCO**  
PASSION TO PROTECT

**LIFECO**  
**LICHFIELD**  
FIRE & SAFETY  
EQUIPMENT  
CO. LTD.

**EBARA**

**Paterson**



Diesel Driven Fire Pump



Electric Driven Fire Pump



Jockey Pump

## Horizontal Split Case Pumps

### Features

- Performance characteristics as per NFPA 20.
- Complete unit responsibility.
- Complete in-house fabrication capabilities.
- Hydrostatic testing facilities.
- Operation run test as per NFPA 20, UL 448 and FM 1311 requirements.
- Drivers : Electric Motor drive or diesel engine drive.
- Electric testing capabilities for motor and controllers as per NFPA standards.
- Capable of supplying additional accessories wherever required.



Spilt Case

Capacity to 5000 GPM (18,925 L/min)

Pressures to 233 PSI (157 m) Working Pressures



# FIRE PUMP SYSTEM



## End Suction pump

- Required by NFPA when operating under a static suction lift condition.
- Dynamically balanced impellers secured to the shaft with steel locking collets to assure proper problem free operation.
- Open line shaft design provides for product lubrication of the bearings.
- Available in electric motor or diesel engine driven configuration.
- Provided with a bronze suction strainer as standard.

Capacity to 5000 GPM (18,925 L/ min)

Pressures to 350 PSI (247 m) Working Pressures



End Suction



Vertical Turbine

## Vertical Turbine

- Top centerline discharge with foot supported casing.
- Ease of installation.
- Simplifies piping layout.
- Reduces problems associated with piping strain.
- Self-venting design eliminates the need for automatic air release valve.
- Rear pullout design supplied as standard with spacer coupling.
- Ease of maintenance, eliminates disturbing driver or piping when removing rotating element.
- Hydraulically balanced impeller extends bearing life and assures smoother

Capacity to 5000 GPM ( 18,925 L/min)

Pressures to 233 PSI (157 m) Working Pressures



## Security Features

NVRs up to 64 channels, 16 SATA

NVRs with 4k HDMI Output.

Based on HD-TVI technology.

Camera up to 14 MP.

Improved IR technology EXIR 2.0 along with new low-light technology.

Include high resolution up to 12 MR 180 panoramic viewing.

High Definition (UHD) 4k Recorders.



Outdoor Dome Camera



Bullet Camera



Outdoor Turret Camera



Video Intercom Tablet



Network Video Recorder



ACCESS CONTROL



Thermal and Optical Bi-Spectrum



Mobile Network Camera



Thermal Network Bullet Camera

# PA SYSTEM



## PA System Features

User-Friendly Front Panel Allows Easy Operation.

3 Electronically Balanced Microphone Inputs, 2AUX Inputs And Recording Output.

Cost-Effective High Power PA Box Speaker.



**Bosch PLN-6TMW**



**Bosch MW1-RX+LTX-F5**



**Bosch Plena LBB1999/00**



**Bosch LBC 2900 / 20**



**Bosch Plena PLE-2MA120 2 Zone**



**Bosch Plena PLE-1CS**



**Bosch LC3-UC06**



**Bosch LB-2-UC30**



**Bosch LBC 3491/12**

# PA SYSTEM



## PA System Features

Switching and handling noise Suppression.

High-Impedance (70V/100V Lines) Model.

IP65 Certified Weatherproof Construction.



TOA TS-680



TOA PC-658R



TOA TU-651M



TOA DM-1200



TOA A-2060 MIXER AMPLIFIER



Toa TS-681L



TOA BS-678B



TOA BS-1030B



TOA TZ-206B

# EMERGENCY LIGHTING SYSTEM

## ADDRESSABLE SELF-CONTAINED



### Emergency Light Features

- Low Power Consumption.
- Long Life Time 50000 Hours.
- LED Day Light Source with 65000k.
- Addressing Function, Patented.
- Deep Discharge Protection.
- 3 Hours Rated Duration.



### Products Range



# SMOKE MANAGEMENT SYSTEM

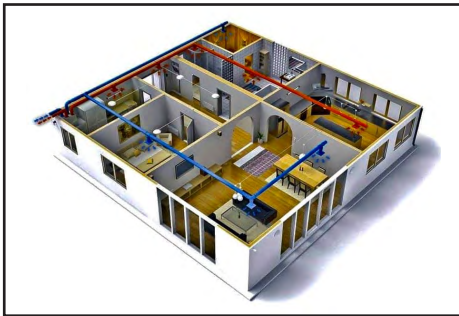


## PRESSURISATION

A Pressurisation system consists of three main components:  
 Supply Air (where air is injected into the area that is to be protected);  
 Pressure Relief (to avoid over- pressure when doors are closed), and;  
 Air Release (air and smoke is released from the adjoining fire area).  
 Combining these elements creates a positive pressure difference that prevents lobbies and staircases from filling up with smoke.



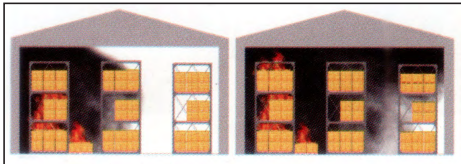
## SMOKE EXTRACTION



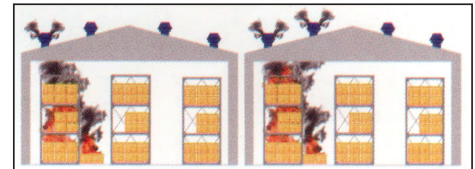
A mechanical ventilating system capable of removing smoke and products of combustion from a designated fire compartment, and also supplying fresh air in such a manner as to maintain a specified smoke free zone below the smoke layer:

## SMOKE CONTROL SOLUTIONS

Containing the smoke to the zone of fire origin.  
 Maintaining a tenable environment within exits  
 Maintaining the smoke layer interface to a predetermined elevation.



FIRE IN A BUILDING WITHOUT A SMOKE CONTROL SYSTEM



FIRE IN A BUILDING WITHOUT A SMOKE CONTROL SYSTEM

## MAIN COMPONENTS



SYSTEM CONTROL PANEL



AXIAL FANS



SOUND ATTENUATORS



FIRE RATED DUCT



MOTORIZED SMOKE DAMPERS



JET FANS



# OUR MAJOR CLIENTS PORTFOLIO

Name of Project	Location	Name of Project	Location
Suvastu Rialto Tower	Sat Masjid Road Dhanmondi	Army Multipurpose Auditorium	Dhaka Matikata
Suvastu Shahnawaz	Block-K, Baridhara Diplomatic Zone	Arbella Fashion Ltd.	Gazipur, Tripur
Manta Apparels Ltd	Jamgora, Ashulia Savar	IPCO Shoppping Complex	Uttara Airport Dhaka
Laundry Industries Ltd	Khejur banag Ashulia	BRAC University	Merul Badda, Dhaka Bangladesh
Olio Apparels Ltd.	Simco Complex Dakshin Khan, Dhaka	Mondol Knitwears Ltd	Sreepur-Kashimpur Road, Gazipur
Fakir Knitwears Ltd	Narayanganj	Square Center	Dhanmondi
Rajuk BBA Project	Uttara, Dhaka	Rancon Management Building	Gulshan-2, Dhaka
Pioneer section-1	Squre Master Bari Mymensingh	Urban Resilience Project (URP): RAJUK Part	Gulshan-1, Dhaka
Pioneer section-2	Squre Master Bari Mymensingh	Anabil Tower	Plot # 3, Gulshan North Avenue,
Pioneer section-3	Squre Master Bari Mymensingh	DBH GROUP	Paltan, VIP Tower Dhaka
Badsha Textile	Squre Master Bari Mymensingh	Shoe Master Footwear Limited	House # 45 Shah Makhdum Ave Dhaka 1230
Marma Composite Ltd.	Savar, Ashulia	North Tower	Uttara, Dhaka
Asrotex Limited.	Bager Bazar Mymensingh, Gazipur	That's Knit Limited	Zirani Bazar Kashimpur, Gazipur
Fariha Knit & Tex Ltd.	Narayanganj	Suvastu Anondolok	House- 15 Road 118 Gulshan-2, Dhaka-1212

# OUR MAJOR CLIENTS PORTFOLIO



Global Partner :



**BRISTOL**  
Fire Engineering



**EMACO**

**Honeywell**  
THE POWER OF CONNECTED

**COOPER**

**Simplex**

**Kruger**

## OUR RANGE OF SERVICE:

- Fire Protection System. (Standpipe, Hydrant & Sprinkler)
- Fire Alarm & Detection System. (Addressable & Conventional)
- Gas Suppression System. (CO, FM-200, Novec-1230, IG-541)
- UL Listed Fire Door with standard accessories
- Public Address, voice evacuation & Conference System
- Fire Extinguisher & equipment
- Emergency Lighting Equipment
- Safety, Security & Rescue Equipment
- Ventilation & Ducting System
- Interior & Decoration Service
- Plumbing And Sanitary System



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