



Description

The LF-6100A/1 is a distributed intelligent fire alarm control panel with a microprocessor based advanced detection and protection system. With its flexibility, unique design and ability to utilize both intelligent and conventional devices, makes it a very reliable system for life safety use. It adopts the use of a multi-line LCD screen for ease of viewing of events and controls, RTOS (Real time operating system), for real time monitoring and display of events, and a graphical display for user-friendly menu and control operation as well as ease of identifying information being sent by field devices to the fire alarm controller.

The LF-6100A/1 design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation and configuration.

With its user-friendly interface, the controller also adopts easy to identify function switches and status LED's that even untrained operators can understand and properly respond to the event that occurred.

History recording is also an integral part of the system. All data is stored inside the system's flash memory and can be viewed or printed at any time using the event browser. A stored history event adopts the circular type storage wherein the oldest data gets deleted in replacement of new incoming data when memory buffer is full. Maximum capacity of history memory is approximated at 999 events.

The controller can accommodate which is adequate enough for small to medium sized life safety applications. Each device has a code that is to be set using the LF-DP-6190 device programmer.

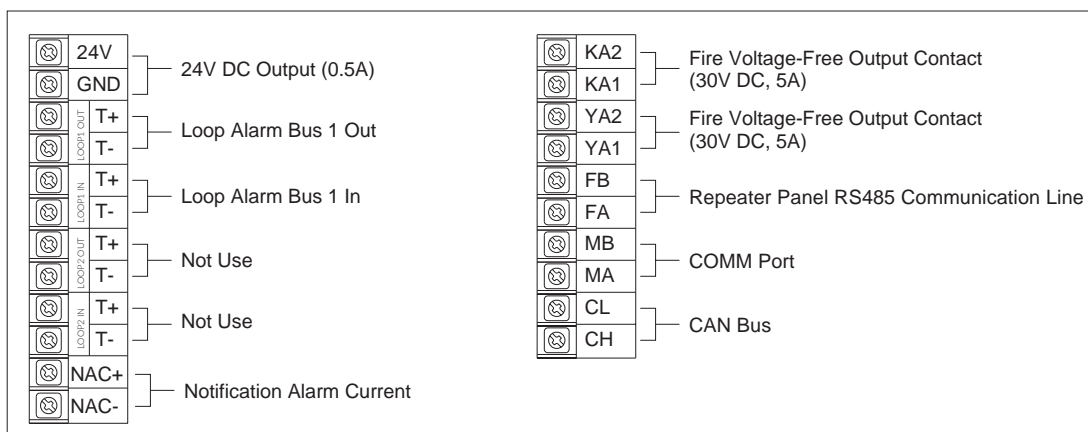
An auto-learn feature for devices is also present in the system. The controller analyzes the environment on which the detection devices are installed and adjust the detector's actuation level accordingly.

It also utilizes a specialized loop circuit design, in which the device's transmitted data is sorted out based on its priority. The information with the highest priority would transfer first. Other information from the field devices up to the controller shall be processed accordingly which ensured a rapid and efficient response of the system. Fire alarm from a field device is transmitted in less than 1 second.

Features

- 1 Intelligent detection circuits
- Closed loop design (Class A wiring)
- Microprocessor based system
- Intelligent distributed system structure
- Quick response time - fire alarm in <1 second
- Up to 127 devices per loop
- Dynamic supervision
- Fully field programmable
- 5" LCD Display - 320x240dpi resolution
- 21 key user-friendly control switches
- 15 LED status indicators
- Menu driven functions
- RS485 communication for fire repeater display panel
- Laptop programing
- 3 Level system password protection
- Logic controlled output functions
- Circular history event flash memory storage
- Data transfer speed and reliability
- High performance at low cost
- Well mount enclosures
- Monitoring and reporting of fire events in up to 254 zones
- Duplicate Address detection

Wiring Details



Technical Specifications

Main Power Supply	220V AC 50Hz/60Hz +10%-15% (≤ 10 Watt Consumption)	
Back-up Power Supply	DC 24V, 7AH (built-in)	
Battery Maximum Output Current (Amps)	0.8 Amps	
Operating Voltage (DC)	19v -26v DC (-2%)	
Maximum Ripple Current (Peak-Peak)	400mV	
Output Current Load (1 min)	10mA	
Output Current Load (1 max a)	168mA	
Output Current Load (1 max b)	536mA	
Fuse Size, Rating and Locations	See Annex C Fuse Replacement in user manual	
Basic supervise capacity	1 loops, 127 addressable points per loop	
Polling cycle	≤ 10 seconds (single point continuous searching in abnormal situation)	
Alarm Bus Loop	Transmission distance	≤ 1000 m (RVS-2 \times 1.5mm ²); ≤ 1500 m (RVS-2 \times 2.0mm ²);
	Line wiring method	2-wire bus
	Output Voltage	18V~26V
	Max Current	87.5mA (Per Loop)
Repeat panel communication loop (FA,FB)	Transmission distance	≤ 1000 m (RVS-2 \times 1.5mm ²);
	Output Signal	RS485
	Maximum Quantity	≤ 2 Repeater Panels
FACPs communication loop (CH/CL)	Transmission distance	≤ 2000 m (RVS-2 \times 1.5mm ²);
	Output Signal	CAN bus
	Maximum Quantity	≤ 16 FACPs
Fire Alarm Output (NAC+, NAC-)	Output Voltage	19V~27V
	Max Current	50mA
Fire alarm output (KA1,KA2)	Contact Capacity	30VDC/5.0A, Voltage Free Contact
	In fire alarm state	Contacts Closed in Fire Alarm Condition
Fault output (YA1,YA2)	Contact Capacity	30VDC/5.0A, Voltage Free Contact
	In fault state	Contacts Open in Fault Condition
Operation temperature	0°C~55°C	
Working environment	indoor use	
Relative humidity	$\leq 95\%$	
Memory Capacity	Is able to store 999 records, including opening machine, close machine, reset, fire alarm, supervising, associated operation and fault alarm).	
Associated operation programmable number	100 pieces, including OR1, OR2 & AND logic.	
Location conversion capacity	1 \times 127 addressable device positions each can have 20 English characters. A maximum of 254 zone positions can be used each can have up to 20 English.	



Description

The LF-6100A/2 is a distributed intelligent fire alarm control panel with a microprocessor based advanced detection and protection system. With its flexibility, unique design and ability to utilize both intelligent and conventional devices, makes it a very reliable system for life safety use. It adopts the use of a multi-line LCD screen for ease of viewing of events and controls, RTOS (Real time operating system), for real time monitoring and display of events, and a graphical display for user-friendly menu and control operation as well as ease of identifying information being sent by field devices to the fire alarm controller.

The LF-6100A/2 design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation and configuration.

With its user-friendly interface, the controller also adopts easy to identify function switches and status LED's that even untrained operators can understand and properly respond to the event that occurred

History recording is also an integral part of the system. All data is stored inside the system's flash memory and can be viewed or printed at any time using the event browser. A stored history event adopts the circular type storage wherein the oldest data gets deleted in replacement of new incoming data when memory buffer is full. Maximum capacity of history memory is approximated at 999 events.

The controller can accommodate which is adequate enough for small to medium sized life safety applications. Each device has a code that is to be set using the LF-DP-6190 device programmer.

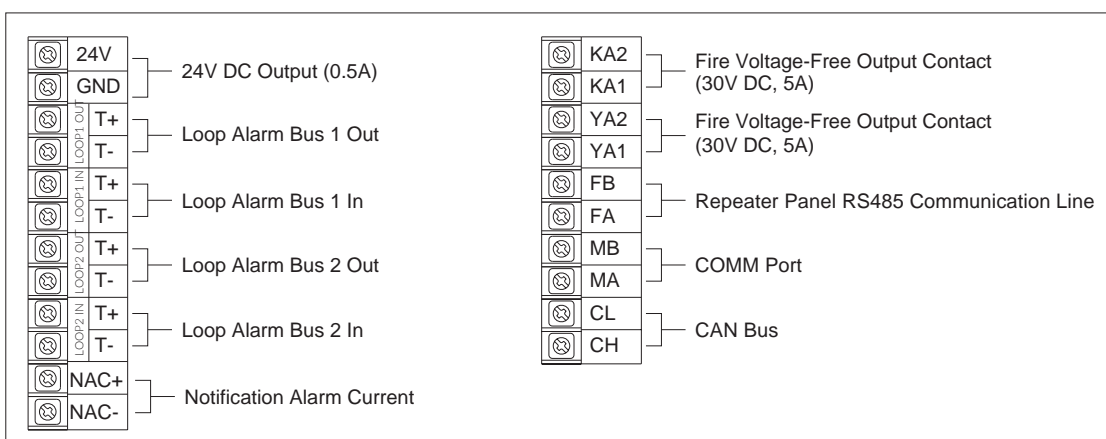
An auto-learn feature for devices is also present in the system. The controller analyses the environment on which the detection devices are installed and adjust the detector's actuation level accordingly.

It also utilizes a specialized loop circuit design, in which the device's transmitted data is sorted out based on its priority. The information with the highest priority would transfer first. Other information from the field devices up to the controller shall be processed accordingly which ensured a rapid and efficient response of the system. Fire alarm from a field device is transmitted in less than 1 second.

Features

- 2 Intelligent detection circuits
- Closed loop design (Class A wiring)
- Microprocessor based system
- Intelligent distributed system structure
- Quick response time - fire alarm in <1 second
- Up to 127 devices per loop
- Dynamic supervision
- Fully field programmable
- 5" LCD Display - 320x240dpi resolution
- 21 key user-friendly control switches
- 15 LED status indicators
- Menu driven functions
- RS485 communication for fire repeater display panel
- Laptop programming
- 3 Level system password protection
- Logic controlled output functions
- Circular history event flash memory storage
- Data transfer speed and reliability
- High performance at low cost
- Well mount enclosures
- Monitoring and reporting of fire events in up to 254 zones
- Duplicate Address detection

Wiring Details



Technical Specifications

Main Power Supply	220V AC 50Hz/60Hz +10%-15% (≤10WattConsumption)	
Back-up Power Supply	DC 24V, 7AH (built-in)	
Battery Maximum Output Current (Amps)	0.8 Amps	
Operating Voltage (DC)	19v -26v DC (-2%)	
Maximum Ripple Current (Peak-Peak)	400mV	
Output Current Load (1 min)	10mA	
Output Current Load (1 max a)	217mA	
Output Current Load (1 max b)	622mA	
Fuse Size, Rating and Locations	See Annex C Fuse Replacement in user manual	
Basic supervise capacity	2 loops, 127 addressable points per loop	
Polling cycle	≤10 seconds (single point continuous searching in abnormal situation)	
Alarm Bus Loop	Transmission distance	≤1000m (RVS-2×1.5mm ²); ≤1500m (RVS-2×2.0mm ²);
	Line wiring method	2-wire bus
	Output Voltage	18V~26V
	Max Current	87.5mA (Per Loop)
Repeat panel communication loop (FA,FB)	Transmission distance	≤1000m (RVS-2×1.5mm ²);
	Output Signal	RS485
	Maximum Quantity	≤2 Repeater Panels
FACPs communication loop (CH/CL)	Transmission distance	≤2000m (RVS-2×1.5mm ²);
	Output Signal	CAN bus
	Maximum Quantity	≤16 FACPs
Fire Alarm Output (NAC+, NAC-)	Output Voltage	19V~27V
	Max Current	50mA
Fire alarm output (KA1,KA2)	Contact Capacity	30VDC/5.0A, Voltage Free Contact
	In fire alarm state	Contacts Closed in Fire Alarm Condition
Fault output (YA1,YA2)	Contact Capacity	30VDC/5.0A, Voltage Free Contact
	In fault state	Contacts Open in Fault Condition
Operation temperature	0°C~55°C	
Working environment	indoor use	
Relative humidity	≤95%	
Memory Capacity	Is able to store 999 records, including opening machine, close machine, reset, fire alarm, supervising, associated operation and fault alarm).	
Associated operation programmable number	100 pieces, including OR1, OR2 & AND logic.	
Location conversion capacity	2×127 addressable device positions each can have 20 English characters. A maximum of 254 zone positions can be used each can have up to 20 English characters.	



Description

The LF-6100A/4 is a distributed intelligent fire alarm control panel with a microprocessor based advanced detection and protection system. With its flexibility, unique design and ability to utilize both intelligent and conventional devices, makes it a very reliable system for life safety use. It adopts the use of a multi-line LCD screen for ease of viewing of events and controls, RTOS (Real time operating system), for real time monitoring and display of events, and a graphical display for user-friendly menu and control operation as well as ease of identifying information being sent by field devices to the fire alarm controller.

The LF-6100A/4 design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation and configuration. With its user-friendly interface, the controller also adopts easy to identify function switches and status LED's that even untrained operators can understand and properly respond to the event that occurred.

History recording is also an integral part of the system. All data is stored inside the system's flash memory and can be viewed or printed at any time using the event browser. A stored history event adopts the circular type storage wherein the oldest data gets deleted in replacement of new incoming data when memory buffer is full. Maximum capacity of history memory is approximated at 999 events.

The controller can accommodate which is adequate enough for small to medium sized life safety applications. Each device has a code that is to be set using the LF-DP-6190 device programmer.

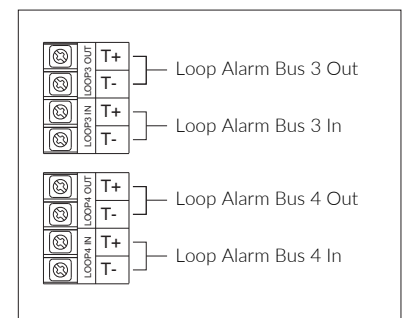
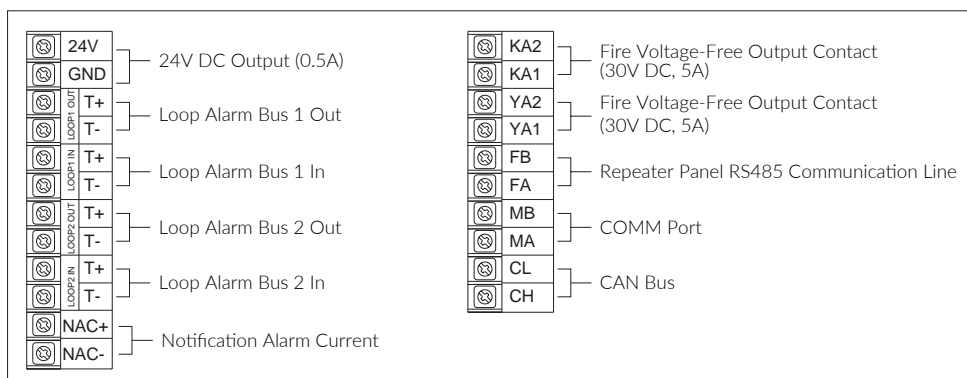
An auto-learn feature for devices is also present in the system. The controller analyzes the environment on which the detection devices are installed and adjust the detector's actuation level accordingly.

It also utilizes a specialized loop circuit design, in which the device's transmitted data is sorted out based on its priority. The information with the highest priority would transfer first. Other information from the field devices up to the controller shall be processed accordingly which ensured a rapid and efficient response of the system. Fire alarm from a field device is transmitted in less than 1 second.

Features

- 4 Intelligent detection circuits
- Closed loop design (Class A wiring)
- Microprocessor based system
- Intelligent distributed system structure
- Quick response time - fire alarm in <1 second
- Up to 127 devices per loop
- Dynamic supervision
- Fully field programmable
- 5" LCD Display - 320x240dpi resolution
- 21 key user-friendly control switches
- 15 LED status indicators
- Menu driven functions
- RS485 communication for fire repeater display panel
- Laptop programming
- 3 Level system password protection
- Logic controlled output functions
- Circular history event flash memory storage
- Data transfer speed and reliability
- High performance at low cost
- Well mount enclosures
- Monitoring and reporting of fire events in up to 254 zones
- Duplicate Address detection

Dimension Details



Technical Specifications

Main Power Supply	220V AC 50Hz/60Hz +10%-15% (≤10WattConsumption)	
Back-up Power Supply	DC 24V, 12AH (built-in)	
Battery Charge Voltage	27.3v DC ±0.3V	
Operating Voltage (DC)	19v -26v DC (-2%)	
Maximum Ripple Current (Peak-Peak)	400mV	
Output Current Load (1 min)	10mA	
Output Current Load (1 max a)	388mA	
Output Current Load (1 max b)	904mA	
Fuse Size, Rating and Locations	See Annex C Fuse Replacement in user manual	
Basic supervise capacity	4 loops, 127 addressable points per loop	
Polling cycle	≤10 seconds (single point continuous searching in abnormal situation)	
Alarm Bus Loop	Transmission distance	≤1000m (RVS-2×1.5mm ²); ≤1500m (RVS-2×2.0mm ²);
	Line wiring method	2-wire bus
	Output Voltage	18V~26V
	Max Current	87.5mA (Per Loop)
Repeat panel communication loop (FA,FB)	Transmission distance	≤1000m (RVS-2×1.5mm ²);
	Output Signal	RS485
	Maximum Quantity	≤2 Repeater Panels
FACPs communication loop (CH/CL)	Transmission distance	≤2000m (RVS-2×1.5mm ²);
	Output Signal	CAN bus
	Maximum Quantity	≤16 FACPs
Fire Alarm Output (NAC+, NAC-)	Output Voltage	19V~27V
	Max Current	50mA
Fire alarm output (KA1,KA2)	Contact Capacity	30VDC/5.0A, Voltage Free Contact
	In fire alarm state	Contacts Closed in Fire Alarm Condition
Fault output (YA1,YA2)	Contact Capacity	30VDC/5.0A, Voltage Free Contact
	In fault state	Contacts Open in Fault Condition
Operation temperature	0°C~55°C	
Working environment	indoor use	
Relative humidity	≤95%	
Memory Capacity	Is able to store 999 records, including opening machine, close machine, reset, fire alarm, supervising, associated operation and fault alarm).	
Associated operation programmable number	100 pieces, including OR1, OR2 & AND logic.	
Location conversion capacity	4×127 addressable device positions each can have 20 English characters. A maximum of 254 zone positions can be used each can have up to 20 English characters.	