

Job Name/Location:

Tag #:

Date:

For: ☐ File ☐ Resubmit

PO No.:

☐ Approval ☐ Other _____

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**PQNFB17C1****ACP BACnet® Gateway****Electrical:**

Power Supply	24 VAC 60 Hz
Power Consumption	22 VA

40 VA transformer recommended.

Surrounding Conditions:

Operating Temperature	-4 - 140°F
Storage Temperature	-4 - 176°F
Humidity	0-95% (non-condensing)

Unit Data:

Dimensions	10-11/16" W x 6-3/16" H x 2-5/8" D
Maximum Number of Devices	256 (64 per V-Net ¹)
Maximum Number of Outdoor Units	64 (16 per V-Net)

Standard Features:

- Integrates Multi V and select Mini and Multi Split systems² with third party building management systems.
- BTL certified (ASHRAE 135-2004) BACnet® Application Specific Controller (B-ASC)
- Supports registration as a foreign device
- 20 x 4 character LCD
- Indoor unit control/monitoring by groups/indoor units
- Web access with user access control
- Operation and error history log
- Forced off digital input
- Nine digital inputs and four digital outputs for device interlocking

Basic Unit Functions

- Operation – On/Off
- Mode – Auto/Cool/Dry/Heat/Fan Only
- Setpoint
- Fan Speed – Auto/Low/Med/High/Power
- Louver Swing

Advanced Unit Functions:

- Two Setpoint Auto-Changeover
- Two Setpoint Setback
- 200 Programmable Schedule Events with control of setpoint, On/Off, Mode, Fan Speed, Controller Lock, and Louver Swing
- Temperature Setpoint Range Limit
- Remote Controller Lock (All, Setpoint, Mode, Fan Speed)
- Run Time Limit (Unoccupied Override)
- Software Device Interlocking
- Manual Control and Scheduling of Digital Output Kit
- Peak Control
- Visual Floorplan Navigation
- Power Distribution Indicator (PDI) (optional)

Notes:

1. When combined with AC Smart Premium or PDI, 128 max devices per V-Net.
 2. PI-485 adapter required. Contact Engineering for a list of compatible systems.
 Must follow installation instructions in the applicable LG installation manual.

Optional Accessories (sold separately)

- ☐ Digital Output Kit - PQNFP00T0
- ☐ Power Distribution Indicator (PDI) - PQNUD1S41
- ☐ PI-485 V-Net Interface Adapter for DFS - PMNFP14A0

For continual product development, LG reserves the right to change specifications without notice.

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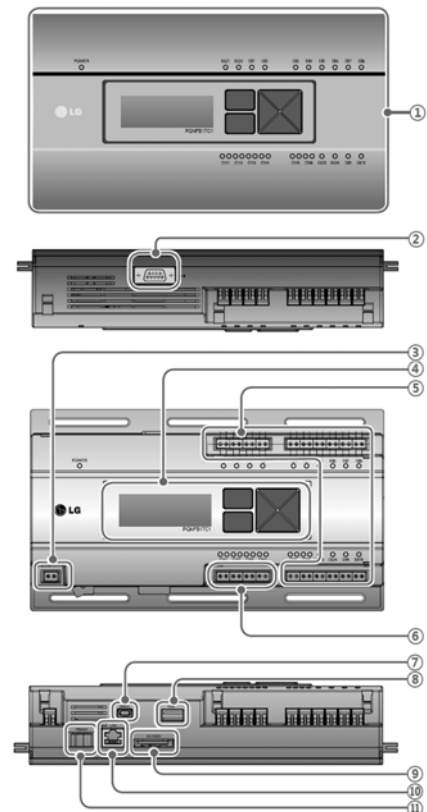
Connectivity:

LG Communications	4 Channel/RS-485 V-Net
BMS Communications	BACnet/IP (Annex-J)
Ethernet	10/100 BASE-T

Communications Cabling Specifications (V-Net):

Type	2-conductor, stranded, shielded copper cable/PVC or vinyl jacket
Size	AWG 18 x 2
Maximum Length	3,280 ft (end to end)

AWG - American Wire Gauge

Description:

- | | |
|---|----------------------|
| 1 Cover | 6 RS-485 V-Net Ports |
| 2 RS-232 Console Port | 7 Mini USB Port |
| 3 24 VAC Power Terminals | 8 USB Port |
| 4 Buttons and LCD Display | 9 SD Card Slot |
| 5 Digital I/O and RS-485 Expansion Port | 10 Ethernet Port |
| | 11 Power Switch |

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ACP BACnet® Gateway



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AC Unit

Check the appropriate box below to indicate the required integrated points for this project.

	Function	Object Type	Description
Control	ON/OFF (Setting)	BO	Starts and stops the unit
	Lock (Setting)	BO	Sets the remote controller lock function
	Filter Sign Reset	BV	Resets the filter limit indicator
	Operation Mode (Setting)	MO	Sets the operation mode of the unit
	Swing (Setting)	BO	Sets the air direction of the unit
	Fan Speed (Setting)	MO	Sets the airflow of the unit
	Set Room Temperature	AV	Sets the room temperature setpoint of the unit
	Set Upper Temperature Setting	AV	Sets Setpoint upper range limit value
	Set Lower Temperature Setting	AV	Sets Setpoint lower range limit value
	Mode Lock Setting	BO	Sets the remote controller Mode lock
	Fan Lock Setting	BO	Sets the remote controller Fan Speed Lock
Monitor	ON/OFF (Status)	BI	Monitors ON/OFF status
	Lock (Status)	BI	Indicates if the remote controller lock function is active
	Filter Sign	BI	Monitors the status of the filter indicator
	Operation Mode (Status)	MI	Monitors the operation mode of the unit
	Swing (Status)	BI	Monitors the swing mode of the unit
	Fan Speed (Status)	MI	Monitors the airflow of the unit
	Room Temperature	AI	Monitors the room temperature value
	Alarm	BI	Monitors whether the unit or system is operating properly
	Error Code	AI	Indicates the respective error code that occurred from the system
	Set Temperature Status	AI	Monitors room temperature setpoint value
	Power Distribution	AI	Monitors the accumulated power value from the Power Distribution Indicator (PDI) Unit
	Set Upper Temperature Status	AI	Indicates Setpoint upper range limit value
	Set Lower Temperature Status	AI	Indicates Setpoint lower range limit value
	Mode Lock Status	BI	Indicates if the remote controller Mode Lock function is active
	Fan Lock Status	BI	Indicates if the remote controller Fan Speed Lock function is active

Ventilator

Check the appropriate box below to indicate the required integrated points for this project.

	Function	Object Type	Description
Control	ON/OFF (Setting)	BO	Starts and stops the unit
	Lock (Setting)	BO	Sets the remote controller lock function
	Filter Sign Reset	BV	Resets the filter limit indicator
	Operation Mode (Setting)	MO	Sets the operation mode of the unit
	Fan Speed (Setting)	MO	Sets the airflow of the unit
	User Mode (Setting)	MO	Sets the operation mode of the Ventilator
	AC Operation Mode (Setting)	MO	Sets the operation mode of the DX Ventilator
	AC ON/OFF (Setting)	BO	Starts and stops the DX Ventilator
	AC Humidify (Setting)	BO	Starts Humidify function of the DX Ventilator
Monitor	ON/OFF (Status)	BI	Monitors ON/OFF status
	Lock (Status)	BI	Indicates if the remote controller lock function is active
	Filter Sign	BI	Monitors the status of the filter indicator
	Operation Mode (Status)	MI	Monitors the operation mode of the unit
	Fan Speed (Status)	MI	Monitors the airflow of the unit
	Alarm	BI	Monitors whether the unit or system is operating properly
	Error Code	AI	Indicates the respective error code that occurred from the system
	User Mode (Status)	MI	Monitors the operation mode status of the Ventilator
	AC Operation Mode (Status)	MI	Monitors the operation mode status of the DX Ventilator
	AC ON/OFF (Status)	BI	Monitors ON/OFF status of the DX Ventilator
	AC Humidify (Status)	BI	Monitors Humidify function status of the DX Ventilator

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Hydro Kit

Check the appropriate box below to indicate the required integrated points for this project.

	Function	Object Type	Description
Control	Run/Stop (setting)	BO	Starts and stops the unit
	Lock (setting)	BO	Sets the remote controller lock function
	Operation Mode (setting)	MO	Sets the operation mode of the unit
	Set Room Temperature (setting)	AO	Sets the room temperature setpoint of the unit
	Set Hot Water Temperature (setting)	AO	Sets the hot water temperature setpoint
	Set PipeOut Water Temperature (setting)	AO	Sets the pipeout hot water temperature setpoint
	Hot Water On/Off (setting)	BO	Sets the hot water supply mode
Monitor	Run/Stop (status)	BI	Monitors unit ON/OFF status
	Lock (status)	BI	Indicates if the remote controller lock function is active
	Operation Mode (status)	MI	Monitors the operation mode of the unit
	Set Room Temperature (status)	AI	Monitors room temperature setpoint value
	Set Hot Water Temperature (status)	AI	Monitors hot water temperature setpoint
	Set PipeOut Water Temperature (status)	AI	Monitors the pipeout hot water temperature setpoint
	Setting Temperature Reference (Air/Water)	BI	Sets control of the unit according to air temperature or pipe out water temperature
	Hot Water Only Mode	BI	Indicates if the unit is hot water only
	Current Room Temperature	AI	Monitors the room temperature value
	Alarm Event	BI	Monitors whether the unit or system is operating properly
	Malfunction Code	AI	Indicates the respective error code that occurred from the system
	Hot Water On/Off (status)	BI	Monitors hot water supply mode
	Pipe Inlet Temperature (status)	AI	Monitors the pipe inlet temperature
	Water Tank Temperature (status)	AI	Monitors hot water storage tank temperature
	Solar Temperature (status)	AI	Monitors solar heating circuit temperature
	Pipe Outlet Temperature (status)	AI	Monitors the pipe outlet temperature