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# ACP\_LON\_Chiller

## ACP\_LON\_Chiller (for the use in LonWorks)

- Easy interface between BMS and LG Chiller
  - LonWorks Gateway for LG Chiller system
  - Very widely applicable protocol(**LonTalk**® protocol)



### Features

- LonMark® interoperability Guidelines Version 3.4 Compliance.
- LonWorks gateway between LonMark/LonTalk® protocol and LGAP (LG Air conditional Protocol)  
The Gateway can convert the LonTalk protocol to the LGAP protocol.
- Process ability
  - 8 units
  - valid address for each unit : 0x01 ~ 0x08
- Self installation verification function using internet
  - setting gateway
  - diagnosis of communication status on LG Chiller network

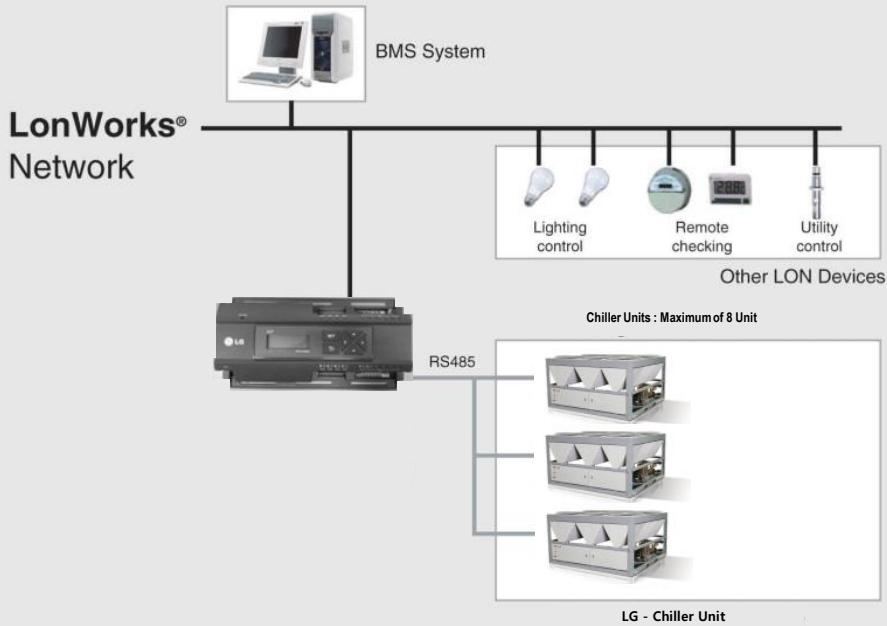
### Chiller Function block

Contolling	Monitoring
On/Off command	On/Off status report
Operation Mode setting	Operation mode status report
Alarm Release command	Alarm Release status report
Lock Setting	Lock status report
Set percentage of Demand Temperature Limit setting	Set percentage of Demand Temperature Limit setting
Set point of Hotwater Temperature setting	Set point of Hotwater Temperature setting
Set point of Coolwater Temperature setting	Set point of Coolwater Temperature setting
	Error status report
	Chiller Product Type
	Chilled Water Flow Switch status report
	Cool Water Flow Switch status report
	Chilled Water Pump Output status report
	Cool Water Pump Output status report
	Chilled Water Pump Interlock On/Off status report
	Cool Water Pump Interlock On/Off status report
	Inverter Compressor On/Off status report
	4way coil status report
	Hot Gas Valve status report
	Oil return Valve status report
	Current Outer Temperature status report
	Current Cycle minimum and maximum Pressure status report
	Total Running Current[A] status report
	Accumulated Running Time status report
	Compressor Discharge Temperature status report
	Compressor Suction Temperature status report

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## System Configuration



## Technical Specifications

Index	Details
Dimension(WxHxD)	270mm X 155mm X 64.8mm
Communication Port	RS485 Connector LG-Net(connects to LG-AHU) LonWorks FT-10 Connector(connects to BMS) Ethernet port
Ethernet	RTL8201B REALTEK (10/100 BASE-T)
Debug	RS-232C
Serial	RS-485 Port (LG-NET)
LonWorks	FT-10 Free Topology channel
Input	Dip-SW (6 bit)
LED	Serial, Lonwork, Ethernet, Power, Run
Power	DC 12V, 3.3A, 40W max

- FT-10 line is used to connect communication lines between BMS System and the BNU-LWA Gateway for LonWorks®

