

# FS-8705-53 – GE Total Lighting Control

## Prosys – Lighting Controller Panel

### Lonworks to BACnet Interface

DATASHEET – Rev 5

#### DESCRIPTION

The GE Prosys Lighting Control Panel has native Lonworks Support but it does not have native BACnet Support.

Chipkin Automation Systems (CAS) are able to offer a BACnet Gateway which allows monitoring and control of relays and channels (groups) on the Prosys Panel.

- Three flavors of BACnet are supported –
- BACnet/IP – Preferred for new installations
  - BACnet/Ethernet – Legacy BACnet installations
  - BACnet/MSTP – Serial flavor. Typically used for field Devices.



Gateways to other protocols such as Rockwell, GE Fanuc, Omron, Modbus, SNMP and many other protocols are available. Please enquire.

#### EASE OF CONFIGURATION

The Prosys Panel is set to Auto Configure. No Lonworks tools are required, No Lonmaker commissioning and no binding required. This means anyone can install the gateway. The FieldServer is configured for panels 1-10. Simply delete the panels not required. Custom Configurations can be provided for a fee.

#### FREE TEST TOOL

CAS provides a free license to the CAS BACnet Explorer. This software application can be used to test / document the BACnet Interface prior to integration into the Building System. Often with system integration there is a blame game when things don't work as expected. Use this tool to prove the interface works and insulate yourself. The license is transferable so you can hand it to your customer. Our competitors sell similar software for up to \$795.00

## BACNET OBJECTS PROVIDED

Per Panel. Max of 30 Panels supported.

OBJECT	TYPE	MAX COUNT	NOTES
Relay Status	BI	1-48	Independent feedback from the panel.
Relay Command	BO	1-48	
Channel (Group) Status	AI	1-8	Reports off/on/mixed(50%)/not Configured
Channel Command	BO	1-8	
Channel Schedule Event	3xAO + 1xBO per channel	1-8	Current State, Next State, Time and a command trigger.

## OTHER PROTOCOLS

Every other protocol supported by FieldServer is available (but at a different price point). This means that you could provide a gateway to the following protocols.

- Modbus (RTU, TCP, MB+)
- Omron (Fins)
- GE PLC's (SNP, SNP<sub>x</sub>, SRTP, EGD)
- RockWell PLC's (DF1, CSP, Ethernet/IP, DH+)
- SNMP
- Johnson Controls Metasys N2 Open.

## PANELS PER GATEWAY

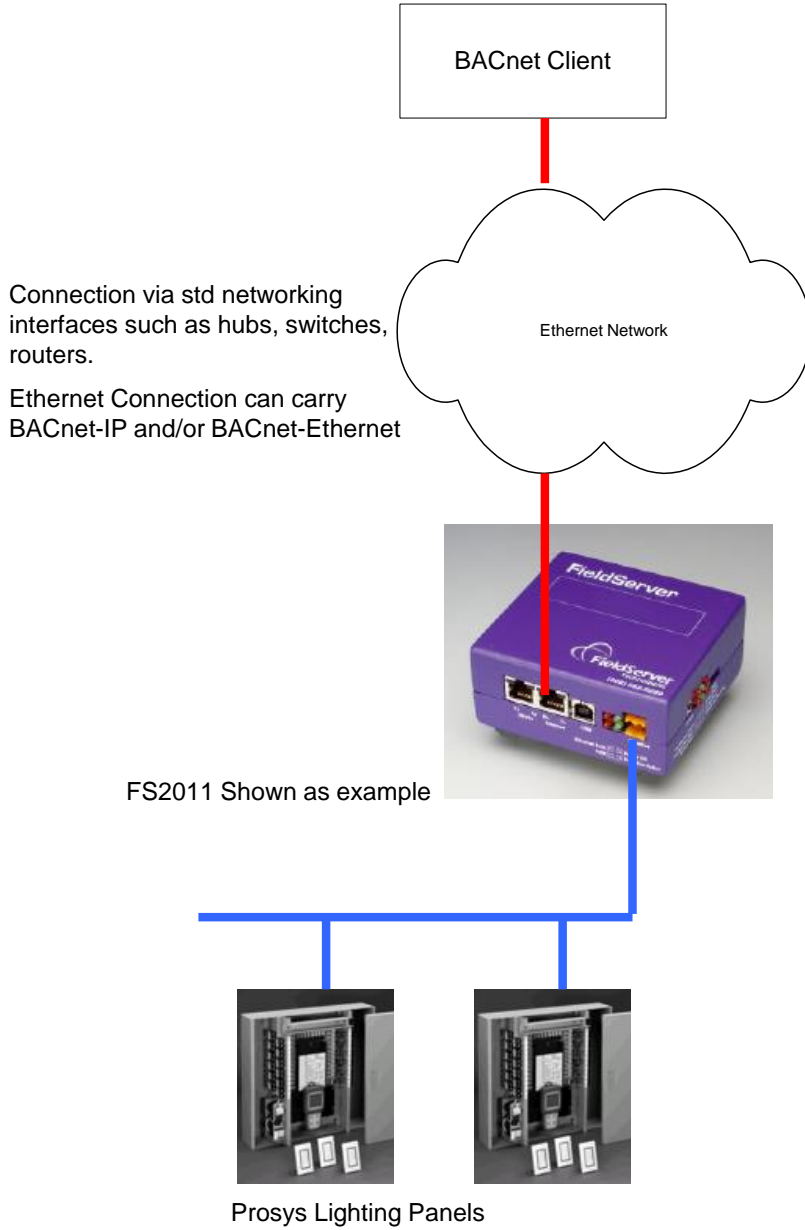
We recommend 1 gateway per 10 panels of 48 relays. It is possible to exceed this count but please enquire.

## VALUE ADDED

To provide control of the relays CAS developed a special driver which is coupled with the Lonworks to provide the control required. This solution for Prosys is only available from Chipkin Automation Systems.

# FS-8705-53 – GE Prosys BACnetInterface

## BLOCK DIAGRAM



## PRICING AND DELIVERY

Subject to change. Please ask for a quote.

### UL Approved Solution

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Delivery 1-2 weeks



**Power Requirements:** 24 VAC Floating (voltage variation + 10%) OR 9-30 VDC @ 8W. 24VAC from GE Panel is ok.

# FS-8705-53 – GE Prosys BACnetInterface

**Operating Temperature:** 0-60oC (32-144oF)

**Relative humidity:** 10-95% RH non-condensing

**Dimensions:** 3.9 x 3.9 x 2 in. (WxDxH) (100 x 100 x 50 mm) 0.4 lbs (0.8 Kg)

**ULus and ULCanada listed**

**Non-UL Enclosed Solution**  
(Submitted for UL approval in Feb 2010)  
Delivery 2-4 weeks

Single order qty  $\geq 10$   
Single order qty  $\geq 25$



**Power Requirements:** 9-30 VDC or VAC or 5 VDC. 24VAC from Panel is ok.  
**Operating Temp.:** -40oF to 187oF (-40oC to 85oC)  
**Relative Humidity:** 5-90% RH, non-condensing  
**Dimensions:** 4.37 x 2.75 x 1.50 inches

**Non-UL Non-Enclosed Solution**

Delivery 2-4 weeks

Single order qty  $\geq 10$   
Single order qty  $\geq 25$



**Power Requirements:** 9-30 VDC or VAC or 5 VDC. 24VAC from Panel is ok.  
**Operating Temp.:** -40oF to 187oF (-40oC to 85oC)  
**Relative Humidity:** 5-90% RH, non-condensing  
**Dimensions:** 4.2 x 2.2 x 1.2 inches

## CUSTOMER SUPPORT

GE Prosys Panel BACnetInterface Driver for FieldServer was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

Thanks for choosing Chipkin's products and integration services to meet your building and industrial automation requirements!

Chipkin™ is a building and industrial automation protocol expert. We develop, configure, install and support gateways (protocol converters), data loggers and remote monitor and controlling applications. Founded in October 2000, Chipkin provides expert solutions for converting BACnet®, Modbus®, and LonWorks®—to name just a few—and enabling interfaces for HVAC, fire, siren, intercom, lighting, transportation and fuel systems. The high-quality products we offer (including those from other vendors) interface with Simplex™, Notifier™, McQuay™, GE™ and many others—so you can rest assured that we will select the most appropriate solution for your application.

With Chipkin you are buying a solution. Our configuration expertise in this field combined with free BACnet and other tools ensure your success; and our customer support via phone, email and remote desktop tools means that we are there when you need us. Chipkin is a small responsive company, and we live or die by the quality of our service—and with offices in two time zones—we can provide support when you need it. Give us a call now!

## Sales and Customer Service

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## REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
28 Apr 2009	PMC		1	Issued for Release
16 Sep 2009	PMC		2	Non-UL Solutions Added Pricing info updated
22 Sep 2009	PMC		3	Channel status also reports 50% state.
3 Feb 2010	PMC		4	Replace image
18 Jun 2021	YC		5	Updated to latest template