

BRYAN® BOILERS

Originators of the "Flexible Water Tube" design

Universal Communication Gateway



Features

- Translates Modbus protocol from boiler/burner to building management system protocol
- Supports BACnet, Metasys, LonWorks and Modbus protocols
- Preconfigured for use with the following controls with Modbus communication port: Honeywell Sola hydronic control, Siemens LMV series burner control, Honeywell RM7800 series burner control and Siemens RWF40 PID control

The Universal Communication Gateway is an external, high performance, low cost building automation multi-protocol gateway that has been preprogrammed to support BACnet^{®1} MSTP, BACnet^{®2} IP, Metasys[®] N2 by JCI, Modbus TCP, and LonWorks[®]. All Honeywell Sola, Siemens RWF40, Siemens LMV, and the Honeywell 7800 Series boiler configurations for the various protocols are stored within the gateway and are selectable

Benefits

- Cost effective integration of Boiler/Burner controls into building management system
- No additional software, downloads or programming required at the job site
- Preconfigured at the factory for common data points
- Bi-directional data flow between devices on selected points
- Everything included in one control panel with connections for 120 Vac and device communication cable



via DIP switches for fast and easy installation. It is not necessary to download any configuration files to support the required applications. The Universal Communication Gateway is provided as a 10" x 12" x 6" NEMA Type 1 control panel that must be mounted and supplied with 120 Vac. Additional specifications can be found on the reverse side of this sheet.

¹ BACnet is a registered trademark of ASHRAE

² Metasys is a registered trademark of Johnson Controls Inc.

Universal Communications Gateway

1. NEMA Type 1 Panel
2. Panel Door Latch
3. On-off Switch
4. Fuse
5. 12 Vac Stepdown Transformer
6. 9 Vac Adaptor
7. RS-232/RS-485 Converter
8. Configuration Manager Proto-processor
9. Sola Port
10. Field Device Port
11. Building Management Port
12. 120 Vac Main Power Port



Terminal	Electrical Connections	
	BACnet/Modbus N2/Modbus TCP	LonWorks
RJ45	10/100 Ethernet Port	10/100 Ethernet Port
J1-1	120 Vac Line Voltage	120 Vac Line Voltage
J1-2	120 Vac Return Line	120 Vac Return Line
J1-3	Physical Earth Ground	Physical Earth Ground
RJ45	Sola Port	Sola Port
J3-3	Device RS485 Data+	Device RS485 Data+
J3-2	Device RS485 Data-	Device RS485 Data-
J3-1	Device RS485 Ground	Device RS485 Ground
J2-3	BMS RS485 Data+	BMS FTT-10 LonWorks Port
J2-2	BMS RS485 Data-	BMS FTT-10 LonWorks Port
J2-1	BMS RS485 Ground	N/A
Approvals:	CE (EN55022; EN55024; EN60950), UL916, FCC Class A Part 15, DNP3 Conformance Tested, OPC Self-tested for Compliance, RoHS Compliant, CSA 205 Approved	
	BTL Marked	LonMark Certified
Requirements Power	120 Vac @ <3.5 Watts	
Physical Dimensions	10 in. x 12 in. x 6 in.	
Weight	13.2 lbs.	
Operating Temperature	-40°C to 75°C (-40°F to 167°F)	
Surge Suppression	EN61000-4-2 ESD EN61000-4-3 EMC EN61000-4-4 EFT	
Humidity	5-90% RH (non-condensing)	

Specifications subject to change without notice



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