T-2 METASYS® INTERFACE

B6000 BMS to Johnson Controls Metasys Gateway

The T-2 Metasys Interface provides certified compatibility for data sharing and program access between the Raypak B6000 Boiler Management System and the Johnson Controls Metasys Building Management System. The T-2 utilizes a ProSoft 1500 series communications interface to facilitate low level translation between the proprietary Raypak RS-485 protocol and Johnson Controls' open architecture N2 protocol. The Raypak B6000 and Metasys systems seamlessly fuse to provide a level of boiler control and monitoring capability unparalleled by any other system at any price.

Features

- Certified N2 Metasys Compatibility
- Total B6000 BMS Program Access
- Boiler Activation/Shutdown
- Outdoor Reset Adjustment
- Setback Control
- Lead/Lag Scheduling
- Temperature Monitoring
- Boiler Fault Annunciation
- Complete Boiler Diagnostics
- Remote Troubleshooting
- All Attribute Read/Write Support
- Diagnostic LED Indicators
- Data Integrity Assurance
- 9600 Baud Data Transfer Rate
- Single Source Accountability

DOOR OPEN

DOOR CLOSED

Catalog No. 5100.14B Effective: 02-15-03 Replaces: 06-01-97

T-2 Metasys Interface

Interface Board
Certified Metasys Compatibility
ProSoft Series 1500 Translator
RS-485 to N2 Gateway
9600 Baud Transfer Rate

Read/Write Attributes
Analog/Binary
Total B6000 BMS Program Access

Data Integrity Protocol
Summation/Modulus Error Checking
Auto Command Error Feedback

LED Diagnostic Indicators

Port 1	Port 2
Green - Active	Green - Active
Red - Error	Red - Error

Electrical Characteristics
120 VAC, 0.25A, 60 Hz

Ambient Conditions
Temperature: -40 to 175°F
Humidity: 90% RH Non-condensing

Enclosure
Heavy Gauge Steel
Lockable Access Door
Tamper Resistant Design
15 3/16" L x 8" W x 4 3/4" D
Boiler or Remote Mounted

Limited One-Year Warranty

Sample Specification

Section I: General Requirements

1. Provide a Raypak T-2 Metasys Interface that shall facilitate low level data translation between the Raypak B6000 Boiler Management System and the Johnson Controls Metasys Building Management System.
2. The interface shall be microprocessor based.
3. The interface shall be UL Listed.
4. The interface shall carry a one-year limited warranty against failure caused by defective workmanship or material.
5. The interface and boiler control system shall be manufactured by the same company and shall carry single source accountability.

Section II: Equipment Enclosure

1. The interface enclosure shall be constructed of heavy gauge steel and shall be protected with a baked-on UV inhibited Polytuf powdercoat finish.
2. The front access door of the interface enclosure shall be lockable and the enclosure shall be tamper resistant.

Section III: Control Functions

1. The interface shall provide seamless communications integration between the Raypak B6000 RS-485 and the Metasys N2 communications protocols.
2. The interface shall utilize summation/modulus error checking and auto command error feedback to ensure data integrity.
3. The interface shall allow analog and binary multi-level read/write Metasys capabilities for the following B6000 functions:
   a) Reset parameters including: Setpoint, Reset Ratio, Temperature Rise and Control Band.
   b) Outdoor cutoff parameters including: Outdoor Cutoff Temperature and Outdoor Cutoff Deadband.
   c) Secondary operating parameters including: Firing Step Increment, Pump Turn-Off Delay and Ignition Lockout Time.
   d) Setback parameters including: Setback Period Scheduling and Setback Activation.
   e) Lead-lag parameters including: Lead Boiler Assignment and Time Rotation Interval.

Section IV: Display Functions

1. The interface shall have port active and error diagnostic lights for both interface ports.
2. The interface shall allow analog and binary multi-level read-only Metasys capabilities for the following B6000 functions:
   a) Current temperatures including: Water Temperature, Outdoor Air Temperature, and Target Temperature.
   b) Boiler operating status including: Valve Position, and Current Firing Rate.
   c) Fault indication including: Low Water, Low Gas Pressure, High Gas Pressure, High Temp, Low Water Pressure, Low Flow, No Pilot and Manual Override Status.
   d) Secondary operating parameters including: Time Remaining Till Lead Boiler Rotation and Valve Operating Times.