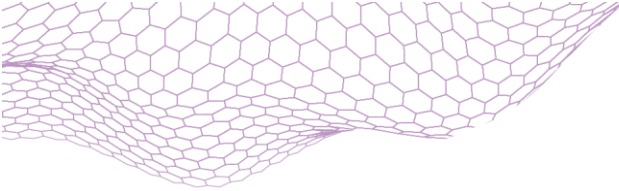


BMS AUTOMATION PROTOCOL CONVERTERS

DDBPC Series





SYNOPSIS

- DDBPC IS AN EXTERNAL, INDUSTRIAL-GRADE MULTI-PROTOCOL DEVICE SERVER DESIGNED FOR BUILDING AND INDUSTRIAL AUTOMATION APPLICATIONS. IT ENABLES SEAMLESS PROTOCOL CONVERSION BETWEEN SERIAL-TO-SERIAL, SERIAL-TO-ETHERNET, AND ETHERNET-TO-ETHERNET DEVICES, SUPPORTING COMMUNICATION STANDARDS SUCH AS BACNET, METASYS N2, MODBUS, AND OTHER WIDELY USED PROTOCOLS.
- THE CONVERTER IS SUPPLIED WITH FULLY INTEGRATED HARDWARE AND EMBEDDED SOFTWARE, ALLOWING OEM EQUIPMENT TO INTERFACE EFFICIENTLY WITH DIVERSE AUTOMATION NETWORKS
- EACH BACNET CONVERTER IS DELIVERED WITH THE REQUIRED PROTOCOL DRIVERS PRE-INSTALLED, AND THE PLATFORM SUPPORTS MULTIPLE PROTOCOL DRIVERS OPERATING CONCURRENTLY ON A SINGLE DEVICE, ENSURING FLEXIBLE AND SCALABLE SYSTEM INTEGRATION.

FEATURES & BENEFITS

- UTILIZES FIELD SERVER BTL-APPROVED MODULES TO ENSURE COMPLIANCE WITH BACNET TESTING LABORATORIES (BTL) STANDARDS.
- ONE OF THE MOST FLEXIBLE AND VERSATILE MULTI-PROTOCOL DEVICE SERVERS AVAILABLE FOR INDUSTRIAL AND BUILDING AUTOMATION APPLICATIONS.
- SUPPORTS VIRTUAL NODE FUNCTIONALITY, ENABLING MULTIPLE OEM CONTROLLERS TO CONNECT TO A SINGLE CONVERTER WHILE APPEARING AS INDEPENDENT CONTROLLERS ON FIELD NETWORKS.
- PROVIDES TRUE PROTOCOL TRANSLATION RATHER THAN SIMPLE PROTOCOL PACKET ENCAPSULATION, ENSURING SEAMLESS INTEROPERABILITY BETWEEN DIFFERENT COMMUNICATION PROTOCOLS.
- MULTI-CLIENT AND MULTI-SERVER ARCHITECTURE ENABLES SIMULTANEOUS COMMUNICATION BETWEEN MULTIPLE DEVICES AND PROTOCOLS ACROSS INDUSTRIAL AND BUILDING AUTOMATION SYSTEMS.
- FIRMWARE IS FLASH UPGRADABLE, ALLOWING EASY UPDATES AND FEATURE ENHANCEMENTS IN THE FIELD.
- DEVICE CONFIGURATION IS PERFORMED USING A .CSV FILE, ENABLING QUICK AND FLEXIBLE SYSTEM SETUP.
- SUPPORTS SECURE HTTPS COMMUNICATION AND DHCP CLIENT FUNCTIONALITY FOR AUTOMATED IP ADDRESS ASSIGNMENT.
- SUPPORTS A WIDE RANGE OF BACNET DATA TYPES, INCLUDING AI, AV, AO, BI, BV, BO, MI, MV, MO, LSP, AND DEVICE OBJECTS.

SPECIFICATIONS

Serial Port	1 x RS485, 2 Wire 3 Pin Screw Type Connector in DDBPC MOD BIP 01, DDBPC BMTP BIP 01 and DDBPC 05 Series
Serial Port	2 x RS485, 2 Wire 3 Pin Screw Type Connector in DDBPC MOD BIP 02, DDBPC BMTP BIP 02, DDBPC R 02, and DDBPC 04 Series
Ethernet Port	1 x 10/100 Ethernet port
Connector	RJ45
Indications	LEDs for Tx, Rx, Power

SUPPORTING PROTOCOLS

RS485	Modbus RTU Allen Bradley DF1 BACnet MS/TP MetasysN2
Ethernet (10/100Base-T)	Allen Bradley Ethernet/IP BACnet IP BACnet Ethernet Modbus TCP/IP, SNMP, XML, DNP3 Ethernet

POWER

Power Range	24V AC/DC, (Range 12 to 48V DC).100mA@24V DC. Range $\pm 10\%$ for 24V AC Connector: 3 Pin Screw Type
--------------------	---

PHYSICAL

Dimensions (L x D x H)	45 x 110 x 75mm
Enclosure	ABS
IP Rating	IP20
Mounting	DIN rail

ENVIRONMENTAL

Operating Temperature	-40°C to 85°C
Relative Humidity	5-90% RH non-condensing

ORDERING INFORMATION

Model	Protocol Conversion (Vice versa)	
DDBPC MOD BIP 01	Modbus RTU	BACnet IP
DDBPC MOD BIP 02	Modbus RTU, 2*RS485 Ports	BACnet IP
DDBPC BMTP BIP 01	BACnet MSTP	BACnet IP / Modbus TCP / Ethernet IP
DDBPC BMTP BIP 02	BACnet MSTP, 2*RS485 ports	BACnet IP / Modbus TCP
DDBPC R 02	BACnet MSTP (Router)	BACnet IP (Router)
DDBPC BMTP MOD 04	BACnet MSTP	Modbus RTU
DDBPC N2 04	Metasys N2	BACnet IP / Modbus TCP / Modbus RTU
DDBPC MTCP BIP 05	Modbus TCP	BACnet IP
DDBPC SNMP 05	SNMP	BACnet IP / Modbus TCP / Modbus RTU
DDBPC EIP 05	Ethernet IP	BACnet IP / Modbus TCP / Modbus RTU
DDBPC DNP3 MOD 05	DNP3	Modbus

NOTES

- UP TO 32 DEVICES CAN BE MULTIDROPPED ON A SINGLE RS-485 PORT, AND UP TO 64 DEVICES CAN BE CONNECTED ACROSS TWO RS-485 PORTS.
- THE ACTUAL NUMBER OF CONNECTABLE DEVICES MAY VARY DEPENDING ON SITE CONDITIONS SUCH AS CABLE LENGTH, NOISE LEVEL, AND INSTALLATION ENVIRONMENT.
- RS-485 REPEATERS MAY BE REQUIRED WITHIN THE COMMUNICATION CHAIN TO MAINTAIN SIGNAL INTEGRITY AND COMPLY WITH RS-485 COMMUNICATION STANDARDS, ESPECIALLY FOR LONGER DISTANCES OR HIGHER NODE COUNTS.
- THE SYSTEM SUPPORTS UP TO 1500 DATA POINTS BY DEFAULT.
- THE POINT CAPACITY CAN BE UPGRADED TO 5000 OR 10,000 POINTS THROUGH LICENSING OR CONFIGURATION UPGRADES AT ADDITIONAL COST.