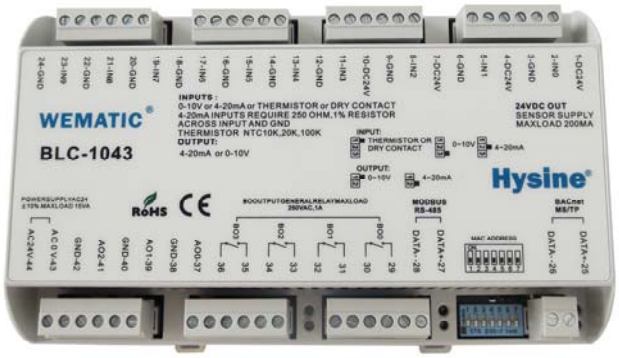
BLC-1043/BLC-1040
Programmable ViewLogic Controller

Features and Highlights



- **Capable**
  ten 10-bit universal inputs,four binary outputs,and three 8-bit analog outputs
- **Interoperable**
  BACnet-compliant on MS/TP LAN at up to 76.8Kbps
- **Versatile**
  Fully programmable for central plant systems, air handing units ,other control and process equipment.
- **Reliable**
  Extensive on-board filtering, with all program data backed up in nonvolatile flash memory.
- **Fast**
  Internal logic loop of 100msec

Applications and functions

- The Hysine® BLC-1043/BLC-1040 is a versatile, high-performance BACnet-compliant field controller designed for of central plant systems, air handling units, large terminal units, and similar control and seamlessly with your BACnet system. It communicates at up to 76.8Kbps on a BACnet MS/TP LAN or can operate as a stand-alone controller.
- ALL BLC-1043/BLC-1040control logic is programmed with Hysine's easy-to-learn graphical programming language，ViewLogic。This self-documenting software's complete function library enables you to implement entirely flexible control strategies. A single BLC-1043/BLC-1040 can contain numerous algorithm loops that control various parts or multiple pieces of equipment.Programming and setup data is stored in non-volatile flash memory, and each BLC-1043/BLC-1040 contains its own software time schedule,ensuring stable and reliable operation.
- The BLC-1043/BLC-1040 supports the OP-500 intelligent operation display panel, which offer convenient data display，setpoint adjustment, and technician to equipment setup parameters.
- The B BLC-1043/BLC-1040 is built for high-speed processing ,with an internal logical loop time of 100msec. Programmable timers also maintain a resolution of 100msec.
- High-resolution,10-bit analog inputs are field-adjustable for thermistor/dry contact,4-20 mA or 0-10 VDC. 0-10 VDC.For equipment monitoring, and onboard LED for each binary output indicates ON/OFF status, and a separate LED indicates communication activity on the MS/TP LAN.
- CMOS circuitry,a four layer circuit board with separate ground plane, and extensive hardware software,and power-supply filtering ensure reliable and stable operatio. The CMOS processor uses an internal watchdog,and power supply voltage is monitored to provide automatic shutdown and data backup.

Ordering information

Item number	Description
BLC-1043	Field controller with ten universal inputs four binary outputs, three analog outputs
BLC-1040	Field controller with ten universal inputs four binary outputs

Technical Data

- **Power** 24 VAC @ 10VA. Utilizes a half-wave rectifier, which allows a single transformer to power Multiple BLCs.
- **Universal Inputs** Ten universal inputs with 10-bit resolution. Inputs 0-15 are jumper-selectable for thermistor/dry contact ,4-20mA or 0-10 VDC.
- **Binary Outputs** four relay outputs,each contact rated at 277VAC,2A.
- **Analog Outputs** three analog outputs with 8-bit resolution. Each is jumper-selectable for 0-10VDC Connected loads must return to the BCU ground, 4-20mA max.load resistance is 1000 ohm. 0-10VDC min.load resistance is 500 ohm.
- **24VDC Outputs** Two terminals provide up to200mA(total)of 24 VDC to power transducers.
- **Processor & memory** AVR processor with onboard flash memory and RAM.
- **Dimensions** (180mm)H × (110mm)W × (50mm)D
- **Terminations** Removable header-type screw terminals accept 14-24 AWG wire.
- **Environmental** -17-70℃.0-95%RH,non-condensing.
- **Communications** BACnet MS/TP LAN up to 76.8Kbps.
- **BACnet conformance** An application specific controller (ASC).
- **Ratings** EMC GB/T 17626

Dimension[mm]