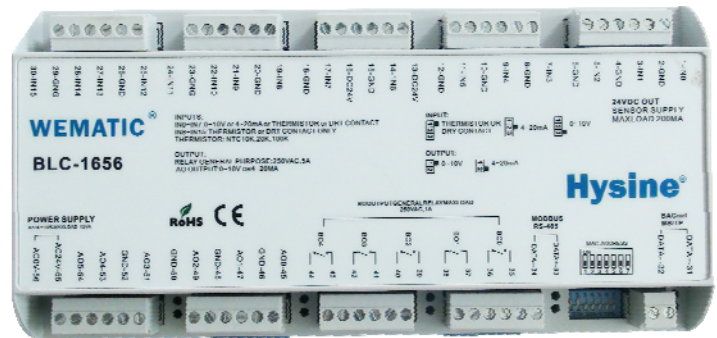## BLC-1656/BLC-1650
## Programmable ViewLogic Controller

### Features and Highlights

- **Capable**
  Sixteen 10-bit universal inputs,five binary outputs,and six 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-1656/BLC-1650 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-1656/BLC-1650 control 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-1656/BLC-1650 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-1656/BLC-1650 contains its own software time schedule,ensuring stable and reliable operation.

- The BLC-1656/BLC-1650 supports the OP-800 intelligent operation display panel, which offer convenient data display，setpoint adjustment, and technician to equipment setup parameters.

- The BLC-1656/BLC-1650 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.Analog outputs are switch- selectable for 4-20 mA or 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-1656** | Field controller with Sixteen universal inputs Five binary outputs,six analog outputs. |
| **BLC-1650** | Field controller with Sixteen universal inputs Five binary outputs |

**Hysine®**

### Technical Data

- **Power**   24 VADC @ 10VA. Utilizes a half-wave rectifier, which allows a single transformer to power Multiple BCUs. One leg of 24VDAC connects to earth (panel) ground.

- **Universal Inputs**   16 universal inputs with 10-bit resolution. Inputs 0-15 are jumper-selectable for thermistor/dry contact ,4-20mA or 0-10 VDC.

- **Binary Outputs**   5 relay outputs,each contact rated at 277VAC,2A.

- **Analog Outputs**   6 analog outputs with 8-bit resolution. Each is jumper-selectable for 0-10VDC or 4-20mA. 4-20mA outputs are sourced by the BCU. 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**   (224mm)H × (113mm)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]