

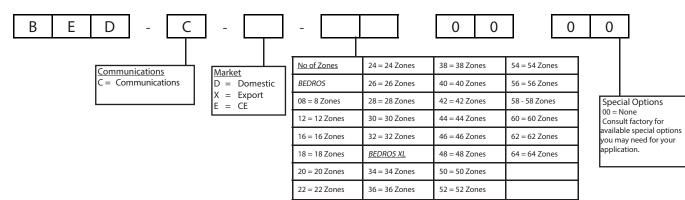
BEDROS AND BEDROS XL NON MODULAR HOT RUNNER CONTROLLERS

Athena's Bedros and Bedros XL offer from 8 to 64 zones of control for a variety of applications. Used in injection molding, thermoforming, extrusion and even heat trace operations, Bedros delivers more functionality in a compact, easy to use design. Featuring a touch screen and joy stick interface, any user can quickly set up their process, store the recipe, and set up communications with an external network.

KEY FEATURES

- 📥 Compact package design
- ▲ 8 to 64 zones of control with 15 amps per zone
- A user-friendly color touch screen with intuitive HMI and built-in buttons for joy stick operation
- Accepts "J" or "K" thermocouple input
- A CompuStep[®] bake out feature prevents moisture at start-up
- A Built-in loop break, short, open, and reverse thermocouple
- 📥 Slaving feature
- Adjustable set-point limits
- A "Boost" mode for temporary % of power output increase
- ▲ USB or Ethernet communications
- ARemote input standby function
- A Remote alarm output contacts
- A Mold storage recipe capabilities
- A GFI protection

ORDERING INFORMATION







TECHNICAL SPECIFICATIONS

OPERATING LIMITS

Absolute Voltage Limits Input Line Voltage **Ambient Temperature Relative Humidity** Tolerance Frequency

PERFORMANCE

Auto Control Mode **Control Accuracy**

Temperature Stability Calibration Accuracy Power Response Time Process Sampling °F/°C CompuStep[®] System Control Mode CompuStep[®] System Duration CompuStep[®] System **Output Voltage** CompuStep[®] System **Override** Temperature **Operation Mode Priority** 85 to 265 Vac Nominal 100 to 240 Vac 32 to 122°F (0 to 50°C)

90%, non-condensing 50-60 Hz

Better than 0.2% of full scale

thermal system

Better than 400 ms

Field Configurable

Approximately 5 min.

PWM % with Zero Cross

a: T/C open, T/C reverse,

Shutdown and open heater override

b: Manual mode overrides T/C open,

100 ms

PWM

200°F (93°C)

CompuStep

T/C reverse

CompuCycle® system (PWM, 200 msec) \pm 0.1°F (\pm 0.1°C) dependent on the total

 $\pm\,0.5\%$ of full scale over the ambient range

HUMAN INTERFACE

Color Touch/screen (6" x 4") Summary of all zones including process values and set points

DIMENSIONS

Height	BEDROS BEDROS XL	24-1/4″ (615.95mm) 52 1/2″ (1333.5mm)
Width	16-1/2 ″ (419mm)	
Depth	20" (510mm) with connectors	
Weight	BEDROS	62 lb (28.12 kg)
	BEDROS XL	130 lb (58.97kg).

Specifications subject to change without notice.







INPUT SPECIFICATIONS

Thermocouple (T/C Sensor) External T/C Resistance T/C Isolation Cold Junction Compensation Input Impedance Input Protection Input Dynamic Range Common Mode **Rejection Ratio Power Supply** Rejection Ratio

Type "J" or "K" grounded or ungrounded Max. 100 ohms for related accuracy Isolated from ground and supply voltages

Automatic, better than 0.02°F/°F (0.03°C/°C) 10 megohms Diode clamp, RC filter Greater than 999°F (537°C)

Greater than 100dB

Greater than 70dB

OUTPUT SPECIFICATIONS

Voltages	240 Vac nominal, single phase 100 Vac available
Power Capability	15 amperes, 3600 watts @ 240 Vac per zone
Overload Protection	Type (ABC) Fuses
Power Line Isolation	Optically and transformer isolated from ac lines. Isolation voltage greater than 2500 volts
Output Drive	Internal solid state triac



Configure single or multiple zones Zone Group Naming Mold Storage Capabilities **Network Communications** Built-in Buttons for joy stick