



The BlackBox series controllers are an out of the box solution suitable for use on HVAC systems utilising any of the following control strategies:

APPLICATIONS

- DX plant with reverse cycle
- DX plant with electric heating
- Water cooled reverse cycle with pump call
- Water cooled electric heat with pump call
- Chilled water modulating cooling
- Staged electric heat
- Economy cycling

FEATURES

- Multiple HMI Touchpad connectivity
- Multiple controllers to one Touchpad connectivity
- Plug and play capable
- Calibration free high sampling rate sensors
- Multiple Personalities available
- Various HMI options available
- 5 relay + 2 analogue outputs as standard
- RS485 communications capable
- Optional timeclock available



Product Code			C-BB5-L
Environmental	Transport	Temperature Range	0 - 80 °C
		Humidity	10 - 80 %
	Operation	Temperature Range	0 - 50 °C
		Humidity	10 - 80 %
		Altitude	0 - 2000 m
Electrical	Power Supply	Supply Voltage	240VAC ± 10%
		Frequency	50-60Hz
		Connection Type	3 x Terminal
Communications	IASNet Bus - to external interfaces	Connection Type	5 x Terminal / 1 x InnoCab socket (RJ12)
		Cable Type	4 Core + 1 Shield / 5 Core + Shield (flat)
		Data Refresh Rate	1s
	Microwire Bus - to clock module	Connection Type	IDC10
		Data Refresh Rate	1s
Inputs	Analogue	Number	2
		Type	NTC Thermistor - 47 kΩ @ 25 °C
		Connection Type	2 x Terminal
		Cable Type	2 Core + 1 Shield
		Data Refresh Rate	1s
	Digital	Number	1
		Connection Type	2 x Terminal
		Operation	Latched Mode (Close for flow - Open for no flow)
Outputs	Relay	Number	5
		Maximum Load	7 A (Inductive)
		Connection Type	3 x Terminal (Common, Normally Open, Normally Closed)
		Status Indication	External LCD interface or software HMI
	Analogue	Number	2
		Type	1 x 0-10 VDC spanning cooling Control Band 1 x 0-10 VDC spanning heating Control Band
Annual Timeclock			Optional
Physical Characteristics		Enclosure Material	ABS
		Weight	560 g
		Dimensions	174 (L) x 117 (W) x 56 (H)

