



## Control Components

### Introduction

The Heatronic 4000 is designed to operate up to four boilers to produce and maintain a target temperature. The Heatronic 4000 operates both condensing and non condensing boilers that have either modulating, single stage, two stage, or dual fuel burners to provide a more flexible, cost effective mixed plant solution with better system control, energy efficiency and overall performance.

Specifically designed and configured with commercial / light industrial installers in mind. The Heatronic 4000 control has 22 default pre-programmed parameters stored in memory for 39 Bosch / Buderus Boiler models. This Bosch / Buderus Boiler Menu will reduce the tedious programming, set-up and start-up times for any and all applications.

## Engineering Specifications

Heatronic 4000 4 boiler control, DHW, BACnet and Modbus (part number 7738003450)	
Literature	6720810369 (English-Installation), 6720810373 (English-Applications), 6720810375 (English-BAS Integration), 6720810371 (English-Submittal) 6720810370 (French-Installation), 6720810374 (French-Applications), 6720810376 (French-BAS Integration), 6720810372 (French-Submittal)
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	5.5 lb. (2490 g)
Dimensions	8-1/16" H x 11-1/8" W x 2-15/16" D (204 x 282 x 74 mm)
Enclosure	Grey PC+ABS plastic with metal top and bottom conduit connection walls, NEMA type 1
Approvals	CSA C US, meets class B: ICES & FCC Part 15, BTL Listed
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), < 90% RH non-condensing
Input Power	115 V (ac) ±10%, 60 Hz, 18 VA
Primary Pump Relays	230 V (ac) 10 A, 1/2 hp
Boiler & DHW Pump Relays	230 V (ac) 5 A, 1/3 hp
Boiler Stage, Auxiliary & Alert Relays	230 V (ac) 5 A, 1/6 hp
Modulating outputs	4 x 0-10 V (dc) 500 Ω minimum load impedance / 4-20 mA 1 kΩ max load impedance
Calls	24 V (ac) or Short
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Outdoor Sensor and 5 Universal Sensors
Warranty	Limited 3 year

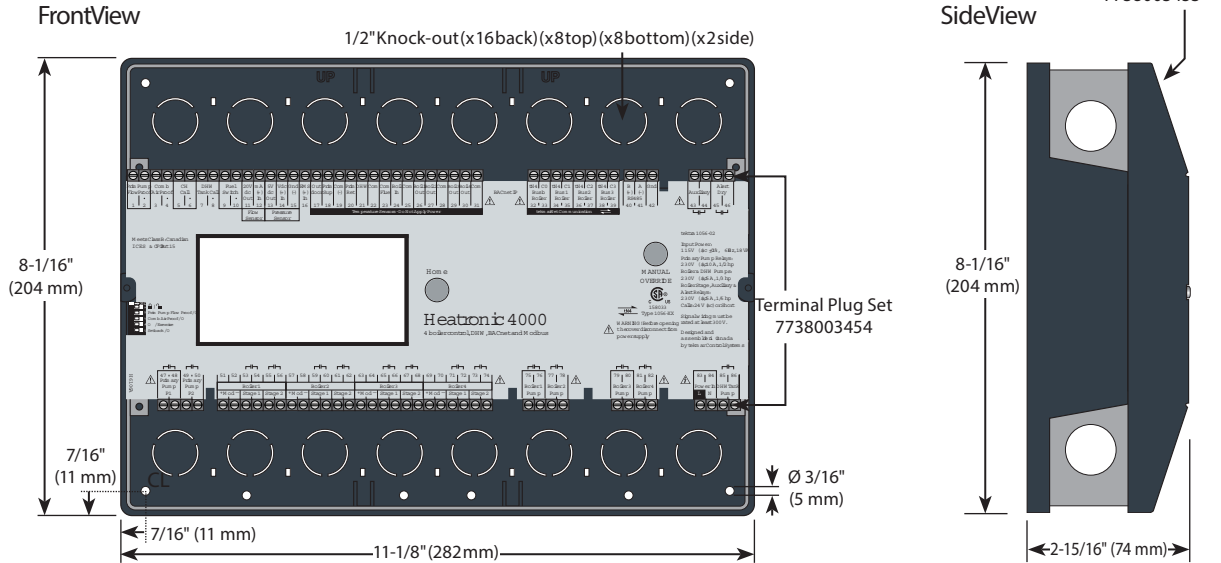
Outdoor Sensor (spare part number 7738003452) - Included with Heatronic 4000	
Packaged weight	0.17 lb. (77 g)
Dimensions	2-5/8" H x 1-9/16" W x 1-11/16" D (67 x 40 x 43 mm)
Enclosure	White PVC plastic, NEMA type 2
Approvals	CSA C US
Operating range	-60 to 140°F (-51 to 60°C)
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
Warranty	Limited 3 Year

Universal Sensor (spare part number 7738003451) - 5 included with Heatronic 4000	
Packaged weight	0.1 lb. (50 g)
	Brass sleeve, 1' (300 mm) 20 AWG XLPE wire
Dimensions	3/8" OD x 3/4" (9.5 OD x 19 mm)
Approvals	CSA C US
Operating range	-60 to 255°F (-51 to 125°C)
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
Warranty	Limited 3 Year

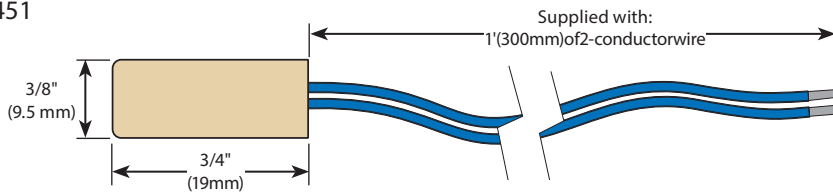


Dimensions

Heatronic 4000: 7738003450



Universal Sensor: 7738003451



Outdoor Sensor: 7738003452

