Honeywell Home

TheraPro HR90

ELECTRONIC RADIATOR CONTROLLER

SUBMITTAL SHEET

Job Name	
Engineer	
Mechanical Contractor	
Contractor's P.O. No.	
Representative	
Notes	

Model(s)				
H90	Qty.		Notes	
Valve Body	Qty.		Notes	
Approval				
Service				
Tag No.				

APPLICATION

The TheraPro HR90 is a 7-day programmable electronic radiator controller used for standalone temperature control of a radiator. For use with hot water and steam systems.

FEATURES

- **Adjustable, Backlit display**
- **Operation/Child Lock**
- **7-day "arm-chair" programming**
- **Auto frost protection**
- **Party/Holiday Mode**
- **3 Factory pre-settings**
- **Temperature limitation min/max**
- **Temperature-Offset**
- **Copy programs between multiple controllers**
- **Fail-safes open**
- **2-3 year average battery life**
- **Secure locking screw to radiator valve**

ENERGY SAVINGS

The TheraPro HR90 helps keep heating costs under control. It automatically regulates the heating valve via electronic time programs and can be programmed according to a daily routine. The device also comes with an ECO saving mode which lowers the ambient temperature by 5 °F to reduce energy consumption.

SPECIFICATIONS

ELECTRICAL DATA		
Power supply	Battery or chargeable batteries	
Battery Type	LR6, AA, AM3 2x Alkaline Mignon 1.5V	Alternative: 2x Lithium 1.5V 2x NiMH 1.2V chargeable batteries
Backlight display	Text based display 9 characters 1-3/16" x 1-1/32" (BxH)	
ENVIRONMENTAL AND STANDARDS		
Environmental temperature	32 to 122 °F (0 to +50 °C)	
Storage temperature	-4 to 131 °F (-20 to +55 °C)	
Humidity	0–90% RH	
TEMPERATURE CONTROL		
Internal Sensor	NTC	
MECHANICAL DATA		
Dimensions (HxWxD)	2-23/64" x 2-1/8" x 3-25/32"	
Material	PC	
IP Class	IP 30	
Valve connection	M30 x 1.5	
Stroke Range	4 mm	
Full Stroke Cycle	1.1mm	
OPTION		
Copy cable	ACC90*	
CERTIFICATION		
Standards	CE Konformität, RoHS	

* The Resideo ACC90 cable must be used to copy programs. Use of any other cable may damage the device.

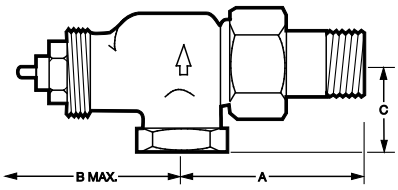
MOUNTING COMPATABILITY

The TheraPro HR90 can be mounted on all common thermostatic valves with a M30x1.5 connection without draining system. It is fully compatable with Resideo M30x1.5 and Danfoss RA2000 valve bodies. (See Table 1 for details on Resideo M30x1.5 valves.) Adapters are required for some valve types.

Table 1. Resideo M30x1.5 Valves.

Part Number	Pipe Size	Body Pattern	Connection Type	Dimensions
V2040ASL15	1/2"	Horizontal Angle	Threaded	Fig. 1
V2040ASL20	3/4"	Horizontal Angle	Threaded	Fig. 1
V2040ASL25	1"	Horizontal Angle	Threaded	Fig. 1
V2040DSL15	1/2"	Straight	Threaded	Fig. 2
V2040DSL20	3/4"	Straight	Threaded	Fig. 2
V2040DSL25	1"	Straight	Threaded	Fig. 2
V2040ESL15	1/2"	Angle	Threaded	Fig. 3
V2040ESL20	3/4"	Angle	Threaded	Fig. 3
V2040ESL25	1"	Angle	Threaded	Fig. 3

V2040A (Horizontal Angle Body)



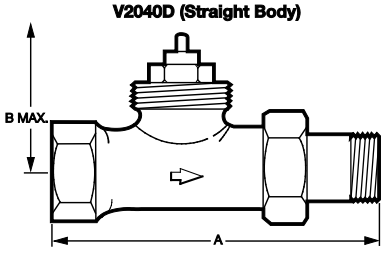
PIPE SIZE	A IN. (MM)	⚠1 B MAX IN. (MM)	C IN. (MM)
1/2 INCH	2-1/8 (54)	4-1/2 (115)	1-1/8 (29)
3/4 INCH	2-1/2 (64)	5-3/16 (132)	1-3/16 (31)
1 INCH	2-15/16 (74)	5-3/16 (132)	1-7/16 (37)

⚠1 B MAX DIMENSION IS WITH T100A CONTROL INSTALLED.

M12932D

Fig. 1. V2040A Dimensions.

V2040D (Straight Body)



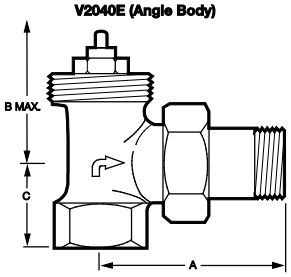
PIPE SIZE	A IN. (MM)	⚠1 B MAX IN. (MM)
1/2 INCH	3-3/4 (95)	4-1/6 (104)
3/4 INCH	4-3/16 (106)	4-1/6 (104)
1 INCH	4-1/2 (114)	4-1/2 (114)

⚠1 B MAX DIMENSION IS WITH T100A CONTROL INSTALLED.

M12930E

Fig. 2. V2040D Dimensions.

V2040E (Angle Body)



PIPE SIZE	A IN. (MM)	⚠1 B MAX IN. (MM)	C IN. (MM)
1/2 INCH	2-5/16 (58)	3-13/16 (97)	1 (25)
3/4 INCH	2-5/8 (66)	3-13/16 (97)	1-1/8 (29)
1 INCH	2-15/16 (74)	4-5/16 (110)	1-5/16 (34)

⚠1 B MAX DIMENSION IS WITH T100A CONTROL INSTALLED.

M12931E

Fig. 3. V2040E Dimensions.

EASY TO INSTALL

The TheraPro HR90 radiator thermostat can be easily installed on all standard radiator valves with an M30 x 1.5 connection, without causing any soiling or water stains. Ready to go in a few steps:

1. Insert battery.
2. Set language, time and date.
3. Remove old thermostat cap.
4. Mount adapter if necessary.
5. Mount valve attachment.

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