T87/Y87

Single zone Thermostat range

APPLICATION

T87/Y87 is a family of modern digital room thermostats available in both wired and RF models and capable of Connected operation via a Honeywell RFG100 internet gateway.

Output configurations include modulating (OpenTherm) and on/off.

Wired OpenTherm models are powered by the OpenTherm bus. The room units for all RF models are powered by 2 x AA alkaline batteries.

Applications include direct boiler control or as the room unit in a multi-zone control system, providing room temperature measurement and setpoint adjustment functions.

Compatible zone controllers are Evohome and the HCE80 underfloor heating controller.

APPROVALS

- CE
- WEEE
- RoHS

SPECIAL FEATURES

- Single zone thermostat, offering Connectivity as an upgrade
- Connected models allow remote operation and scheduling via the Honeywell TCC app for smartphones or tablets
- Modern, stylish design to fit any decor
- Compatible for retrofit with previous generations of T87
- Simple intuitive operation by rotating dial
- Large backlit display
- 0.5°C accuracy
- Installer mode, allowing setting of maximum and minimum set temperatures and default off setpoint
- A range of models to suit different installations or applications

- Battery-operated models use 2xAA alkaline batteries. Minimum battery lifetime 2 years, with battery low warning indicator
- Control forms are either Modulating (via OpenTherm) or TPI. See Technical Data and Options for more information
- Suitable for wall mounting
- Wireless models have 2-way RF communication on 868 MHz band, offering a typical range of 30 m in buildings
- Wireless control of remote boiler using BDR91 relay box or R8810 OpenTherm bridge
- Suitable for use as the room unit in systems containing Evohome or HCE80 underfloor heating controller

TECHNICAL DATA

Specifications	
Power Supply (room thermostat):	T87M/T87HC/T87C – Opentherm 2 wire bus T87RF – 2xAA (LR6) 1.5V alkaline batteries T87G – lifetime power pack
Switch Type/Rating:	See table options
Wiring:	T87M / T87HC / T87C 2 x screw terminals, with access from back T87RF / Y87RF packs – wiring is to RF transceiver
Operation band:	ISM (868.0-868.6) MHz, 1 % duty cycle
Communication range:	30 m in a residential building
Communication technology:	2-way RF, using short, high rate transmissions to minimise air time and avoid collisions
Blocking immunity:	Receiver class 2 (ETSI EN300 220-1)
Protection class:	IP20 for T87 room thermostat (IEC144) IP40 for BDR91, R8810, RFG100
Regulatory Compliance:	D1115 for T87M, T87HC D1116 for T87C, Y87C D1117 for T87RF, Y87RF, Y87RFC D1118 for T87G
ErP Class:	IV (2 %) for T87G, T87RF, Y87RF, Y87RFC V (3 %) for Y87RF2008 VI (4 %) for T87M, T87HC, T87C, Y87C
Enclosure:	Flame retardant plastic housings
Dimensions:	T87 84 mm Φ, 33 mm height
Weight:	133 g (T87RF/T87G), 89 g (T87/T87HC/T87C) excluding packaging/literature

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Min. ambient temperature:	0 °C
Max. ambient temperature:	40 °C
Shipping and storage temperature:	-20 °C to 55 °C
Min. ambient relative humidity:	10 % *
Max. ambient relative humidity:	90 % *

*non condensing

ORDERING INFORMATION

Options

Listing	Languages	Control Type	Switch Type	RF Control	Connectable*	Connected pack	Thermostat	Transceiver	Gateway
T87M2018	NL	Modulation	OpenTherm				T87M		
T87M2036	EN, ES, FR, NL, DE, IT, HU, CZ, PL, SK, RO, TR	Modulation	OpenTherm				T87M		
T87HC2011	NL	Modulation Heat/Cool	OpenTherm				T87HC		
T87C2055	NL	Modulation	OpenTherm		•		T87C		
Y87C2004	NL, BE	Modulation	OpenTherm			•	T87C		RFG100
T87RF2025	NL	TPI	uses BDR91	•	•		T87RF		
T87RF2033	EN	TPI	uses BDR91	•	•		T87RF		
T87RF2041	IT, FR, ES	TPI	uses BDR91	•	•		T87RF		
T87RF2059	DE	TPI	uses BDR91	•	•		T87RF		
Y87RF2008	NL	Modulation	OpenTherm	•	•		T87RF	R8810	
Y87RF2012	NL	TPI	SPDT 5(3)A 24…230 Vac	•	•		T87RF	BDR91	
Y87RF2024	EN	TPI	SPDT 5(3)A 24…230 Vac	•	•		T87RF	BDR91	
Y87RF2058	IT, FR, ES	TPI	SPDT 5(3)A 24…230 Vac	•	•		T87RF	BDR91	
Y87RFC2032	NL, BE	TPI	SPDT 5(3)A 24…230 Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2066	IT, FR, ES	TPI	SPDT 5(3)A 24…230 Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2074	PL, HU, CZ, SK, RO	TPI	SPDT 5(3)A 24…230 Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2090	TR	TPI	SPDT 5(3)A 24…230 Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2116	EN	TPI	SPDT 5(3)A 24…230 Vac	•		•	T87RF	BDR91	RFG100
T87G2014-E	NL	TPI	SPST 1..250 mA 3..24Vac 40 Vdc				T87G		

*Device can become Connected by binding to a Honeywell RFG100 Internet Gateway

For more information

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