

# W09

- THERMOSTAT 1 INPUT AND 1 OUTPUT
- CONTROLLERS FOR REFRIGERATING UNITS, 3 INPUTS AND 3 OUTPUTS
- REAL TIME CLOCK FUNCTION



## FEATURES

DISPLAY	W09	W09Y	W09C
Single	3 red or blue digit, h 15.5 mm		
<b>INPUT</b>			
One (W09) or Three (W09Y, W09C)	PTC KTY 81-121 (990Ω at 25°C) -50... +150°C (-58... +302°F) or NTC 103AT-2 (10kΩ at 25°C) -50... +109°C (-58... +228°F)	3x PTC KTY 81-121 (990Ω at 25°C) -50... +150°C (-58... +302°F) or 3x NTC 103AT-2 (10kΩ at 25°C) -50... +109°C (-58... +228°F)	
Digital input	--	1 digital input for free voltage contacts as alternative to input 3	
Accuracy	± 0.5 % fs + 1 digit		
<b>OUTPUTS</b>			
One (W09) or Three (W09Y, W09C)	OUT1: Relay SPDT 8A, 1/2HP 250V, 1/3 HP 125 Vac - EN 61810: 8 (3) A - EN 60730: 8 (4) A - UL 60730: 10A Res., 12 LRA, 2 FLA	OUT1: Relay SPST-NO (14A-AC1, 6AAC3 250 Vac, 1 HP 250 Vac, 1/2 HP 125 Vac) OUT2: Relay SPDT (8A-AC1, 3A-AC3 250 Vac, 1/2 HP 250 Vac, 1/3 HP 125 Vac) OUT3: Relay SPST-NO (4A-AC1, 2A-AC3 250 Vac, 1/8 HP 250-125 Vac) 16 A max. for common relay (term. 12)	
Relay operations	100000 operations according to EN 60730		
<b>FUNCTIONAL</b>			
Control	ON/OFF		
Defrosting control	At intervals time by stopping compressor	At intervals time, at reaching temperature by stopping compressor, by electrical heating or hot gas/reverse cycle	
Acoustic alarm	Internal Buzzer (optional)		
Real Time Clock	--	Internal clock to manage defrosting at programmed times	
Serial communication	TTL Modbus, or RS485 by means of the external module A30 (see "Accessories" section)		
Remote display	By means of module TVRY (see "Indicators" section)		
<b>GENERAL</b>			
Power supply	100...240 Vac ±10% (50/60 Hz)		
Power consumption	3 VA approx.		
Dimensions / Weight	75 x 122 mm - depth 34 mm / 120 g approx.		
Connections	Screw terminal block for cables 0.2...1.5 mm <sup>2</sup> / AWG 24...16		
Mounting	On wall. Cables outlet: on the back side or lateral side by PG9 cable gland		
Front protection degree	IP40		
Operating / storage temperature	0... +50°C (32... +122°F) / -25... +60°C (-13... +140°F)		
Operating humidity	30... 95 RH% without condensation		
Conformity	Directive 2004/108/CE (EN55022: class B; EN61000-4-2: 8KV air, 4KV cont.; EN61000-4-3: 10V/m; EN61000-4-4: 2KV supply and relay outputs, 1KV inputs; EN61000-4-5: supply 2KV com. mode, 1 KV diff. mode; EN61000-4-6: 3V); Directive 2006/95/CE (EN 60730-1, EN 60730-2-9). Regulation 37/2005/CE (EN13485 air, S, A, 2, - 50°C +90°C wheter used with NTC 103AT11 probe). Regulation 37/2005/CE (EN13485 air, S, A, 2, - 50°C +90°C wheter used with NTC 103AT11 probe).		

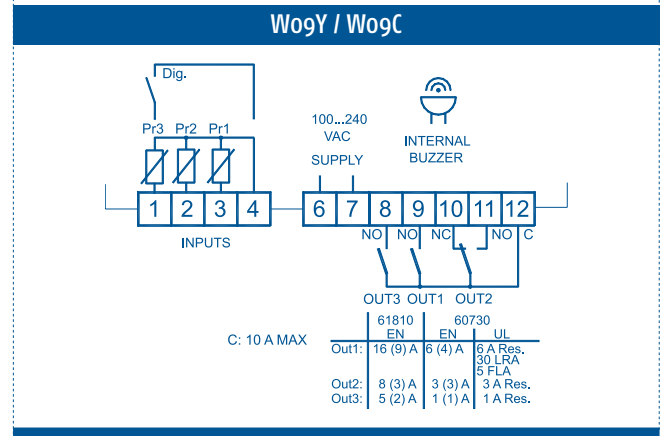
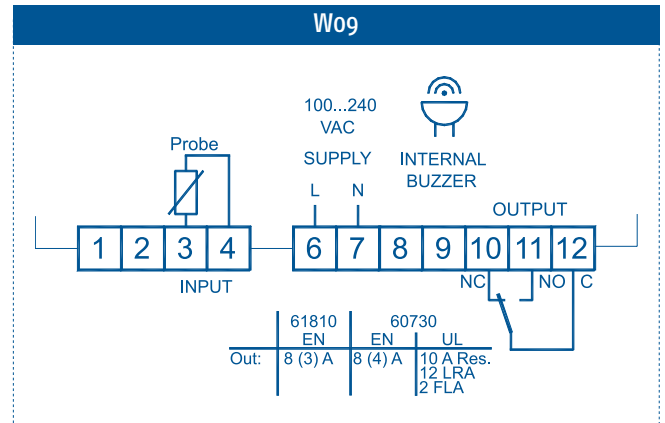
## HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

W09	CODE
<b>POWER SUPPLY</b>	
100...240Vac	H
<b>OUT 1</b>	
Relay SPDT-8A-AC1	R
<b>BUZZER (INTERNAL)</b>	
Available	B
Not available	-
<b>CONNECTION</b>	
Screw type	-
<b>DISPLAY</b>	
Blue	B
Red (standard)	-

W09Y / W09C	CODE
<b>ALIMENTAZIONE</b>	
100...240Vac	H
<b>OUT 1</b>	
Relay SPDT-8A-AC1	R
<b>OUT 2</b>	
Relay SPDT-8A-AC1	R
Not available	-
<b>OUT 3</b>	
Relay SPST-NO 5A-AC1	R
Not available	-
<b>BUZZER (INTERNAL)</b>	
Available	B
Not available	-
<b>CONNECTION</b>	
Screw type	-
<b>DISPLAY</b>	
Blue	B
Red (standard)	-
<b>REAL TIME CLOCK (W09C ONLY)</b>	
Available	C
Not available	-

## CONNECTIONS



## DIMENSIONS

