

X30

- ADVANCED REFRIGERATION CONTROLLER, DATA ACQUISITION AND RS485 TRANSMISSION MODULE
- 4 INPUTS AND 4 OUTPUTS



FEATURES

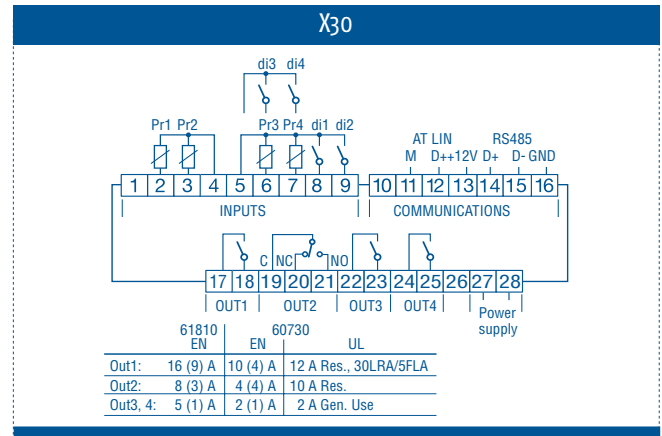
INPUTS	
Four	X30 4 inputs for temperature probes PTC (KTY 81-121, 990Ω @ 25° C) -50 to 150°C / -58 to 302°F or NTC (103AT-2, 10 KΩ @ 25 °C) 50...109 °C / -58...228 °F or Pt1000 (1000Ω @ 0° C) -99.9...300 °C / -99.9 ... 572°F
Digital inputs	2 digital inputs for free voltage contacts
Accuracy	± 0.5 % fs + 1 digit
OUTPUTS	
Up to four	Out1: SPST-NO-16A- 1HP 250V - EN 61810: 16 (9) A - EN 60730: 10 (4)A -UL 60730: 12 A Res., 30 LRA, 5 FLA Out2: SPDT-8A-1/2HP 250 V - EN 61810: 8 (3) A - EN 60730: 4 (4) A - UL 60730: 10 A Res. Out3 : SPST-NO-5A - 1/10HP 125/250 V - EN 61810: 5 (1) A - EN 60730: 2 (1) A - UL 60730: 2 A Gen.Use Out4: SPST-NO-5A- 1/10HP- 125/250V - EN 61810: 5 (1) A - EN 60730: 2 (1) A - UL 60730: 2 A Gen.Use 12 A max. for plug-in version
Relay operations	According to EN 60730: Out1, Out2 30k cycles; Out3, Out4 60K cycles
FUNCTIONAL	
Control	ON/OFF
Defrost control	At time intervals, at reaching temperature, by compressor stop at programmed times, by electric heater or hot gas/ reverse cycle
Serial communication	RS 485 isolated, MODBUS RTU protocol (JBUS)
HACCP functions	With alarm recording
Real time clock	Internal clock to manage defrosting at programmed times
Events	Events programming by means of the internal clock
LIN communication	Available on board (optional)
Baud rate	Programmable 9600 or 19200 baud
Acquisition rate	800 ms
GENERAL	
Power supply	12... 24 Vac/Vdc, 100...240 Vac ±10% (50/60 Hz)
Power consumption	6 VA approx.
Dimensions / Weight	87.5 x 28 mm, depth 71.3 mm (+12.5 mm or 14.5 mm according to terminal block type) / 150 g approx.
Connections	Inputs: Plug-in screw terminal block for 0.14... 1.5 mm ² /AWG 28... 16; Power supply and outputs: Plug-in or fix screw terminal block for cables 0.2... 2.5 mm ² /AWG 24... 14
Mounting	On OMEGA DIN rail A type
Protection degree	IP40 for enclosure use
Operating / storage temperature	0... 50°C (32... 122°F) / -30... 70°C (-22... 158°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, inputs, outputs; EN61000-4-5: supply 2KV com. mode, 1 KV diff. mode; EN61000-4-6: 3V), 2006/95/CE (EN 60730-1, EN 60730-2-7, EN 60730-2-9) Regulation 37/2005/CE (EN13485 arial/air, S, A, 1,- 50°C +90°C wheter used with NTC 103AT11 probe or Pt1000 class B or better

HOW TO ORDER

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

X30	CODE
POWER SUPPLY	
12... 24 Vac/Vdc	G
110... 240 Vac/Vdc	H
OUT1+OUT2	
Not available	-
Out1 Relay SPST-NO 16A + Out2 Relay SPDT 8A	R
OUT3+OUT4	
Not available	-
Out3 Relay SPST-NO 5A + Out4 Relay SPST-NO 5A	R
BUZZER (INTERNAL)	
Not available	-
CONNECTIONS	
Fix screw type (standard)	-
Plug-in screw type	E
Plug-in screw type, fix part only	N
LIN	
Not available	-
LIN on board	L
REAL TIME CLOCK	
Not available	-
Real time clock	C
SERIAL COMMUNICATION	
TTL Modbus	-
RS485	S

CONNECTIONS



DIMENSIONS

