

# ems3120 & 3125






## Technical Specification

The EMS3000 is a Bluetooth enabled advanced Energy Management Device (EMD), utilizing patented smart learning technology, it adapts continuously to the trading pattern of any outlet, delivering optimal energy consumption alongside a guaranteed temperature brand promise.





Asset monitoring and remote management is made possible through the Nexo Discovery cloud portal, or via integration with your own business systems, providing directly actionable insights.



### LED INDICATOR

-  Motion
-  Door
-  Compressor
-  Evaporator fan
-  Bluetooth

### BUTTONS

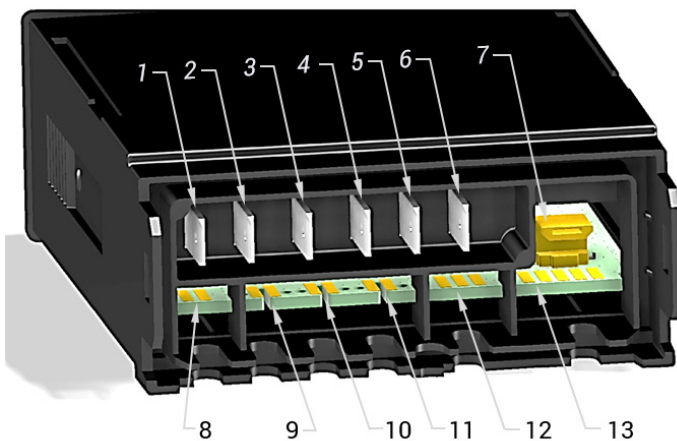
-  Up
-  Set
-  Defrost
-  Down

### MOUNTING

- OVERALL DIMENSIONS  
W-81 mm H-37mm D-105mm
- APERTURE REQUIRED  
W-71MM H-29MM D-100MM  
Cut out tolerance L -0.0/+1.0
- CLIP FIXING

### ELECTRICAL CONNECTIONS

All mains AC voltage input and output connections should be made with 90o Female Spade/Tab insulated connectors, 6.3mm (1/4 inch) wide, using wire of appropriate current rating.



1. N - Mains Neutral (in)
2. L - Mains Live (in)
3. FSL - Fan switched live (out)
4. CSL - Compressor switched live (out)
5. LSL - Light switched live (out)
6. HSL - Heater switched live (out)
7. Communications port
8. Door switch input
9. Evap sensor input
10. Condenser sensor input
11. Appliance sensor input
12. Remote motion detector input
13. (future use only)



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### ENVIRONMENTAL RATINGS

Characteristic	Value
Ingress Protection (IP) Rating	IP65 Front Facia, IP54 all round ( <i>approvals pending</i> )
Maximum ambient temperature	50°C (122°F)

### TEMPERATURE INPUT RANGES

Sensor	Input range °C	Input range °F
Appliance sensor	-15°C to 50°C +/- 0.5°C	5°F to 122°F +/- 1°F
Maximum ambient temperature	50°C to 105°C +/- 5.0°C	122°F to 221°F +/- 10°F
Evaporator sensor	-35°C to 50°C +/- 0.5°C	-37°F to 122°F +/- 1°F










### RELAY RATINGS

		MAXIMUM IEC RATING @100-240VAC	MAXIMUM UL RATING @110VAC
EMS3125 EMD (3 OUTPUTS)	Compressor	9(9) A, p.f. 0.6	11FLA, 66LRA
	Lights (250W ballast)	1(1) A, p.f. 0.6	1FLA, 6LRA
	Evaporator Fan	1(1) A, p.f. 0.6	1FLA, 6LRA
EMS3120 EMD (4 OUTPUTS)	Compressor	9(9) A, p.f. 0.6	11FLA, 66LRA*
	Heater Auxiliary	4(4)A, p.f. 0.6 <sup>^</sup>	4FLA, 24LRA <sup>^</sup>
	Lights (250W ballast)	1(1) A, p.f. 0.6	1FLA, 6LRA*
	Evaporator Fan	1(1) A, p.f. 0.6	1FLA, 6LRA*

\*Total load must not exceed 13A

<sup>^</sup>Heater Auxiliary Load is mutually exclusive with the Compressor, i.e. when Compressor is ON Heater is forced OFF

### PRODUCT APPROVALS

Product Approvals		Bluetooth Approvals	
	<b>CONFORMITÉ EUROPÉENNE / EUROPEAN CONFORMITY (CE)</b> EN60730-1 EN60730-2-9		<b>AGÊNCIA NACIONAL DE TELECOMUNICAÇÕES (ANATEL)</b> Resolução Anatel nº 242
	<b>INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)</b> IEC60730-1 IEC60730-2-9 Glow wire: IEC60335-1		<b>EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI)</b> EN300 328 V1.8.1
	<b>FEDERAL COMMUNICATIONS COMMISSION (FCC)</b> FCC Part 15.107 & 15.109		<b>FEDERAL COMMUNICATIONS COMMISSION (FCC)</b> Part 15C
<b>EMC</b>	<b>ELECTROMAGNETIC COMPATIBILITY (EMC)</b> EN55014-1, EN55014-2, EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3		<b>INSTITUTO FEDERAL DE TELECOMUNICACIONES (IFETEL)</b>
	<b>EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI)</b> EN301 489-1		<b>Bluetooth Special Interest Group (SIG)</b> Bluetooth ® Qualified Design