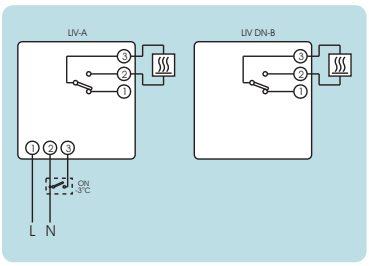
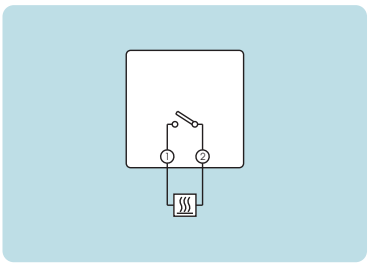
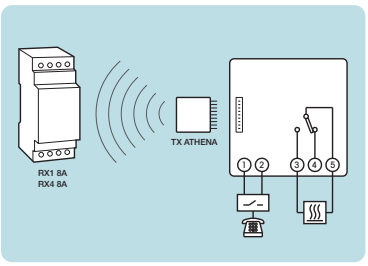
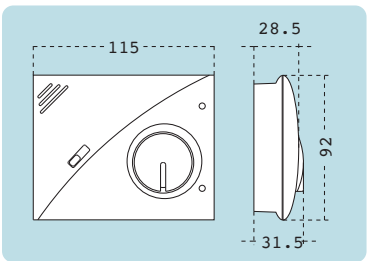
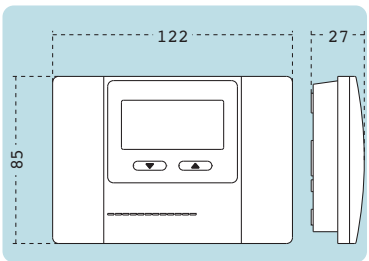
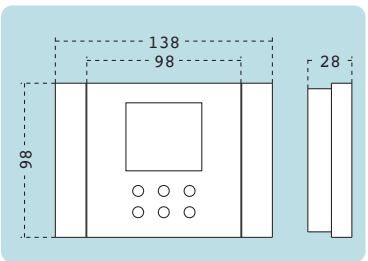
ELECTRONIC THERMOSTATS

	LIV-A / LIV-DN-B	NEO ML	KLIO
			

Description

KLIO enables telephone control (X.CODE WAVE or X.CODE GSM) and wireless connection with the air conditioning or heating machine by means of TX ATHENA and RX1 8A.

Features

	LIV-A / LIV-DN-B	NEO ML	KLIO
Rated voltage	**LIV-A:**230 Va.c. - 50/60 Hz **LIV-DN-B:** 2 alkaline batteries 1, 5 V AAA	2 alkaline batteries 1, 5 V AAA (LR03)	2 alkaline batteries 1, 5 V AAA (LR03)
Switching capacity	8(5) A / 250 Va.c.	7(3) A / 250 Va.c.	8 A / 250 Va.c.
Battery life	1 year (LIV-DN-B)	1 year approximately	1 year approximately
Temperature measurement accuracy	-	± 0, 5 °C	± 0, 5 °C
Night temperature	D/N: -3 °C Day Temp.	-	Adjustable from 2 °C to 35 °C
Anti ice temperature	-	-	Adjustable from 0 °C to 15 °C
Temperature resolution	-	0, 1 °C	0, 1° C
Temperature regulation	5 °C to 35 °C approx.	5 °C to 35 °C	2 °C to 35 °C approx.
Operating temperature	0 °C to +50 °C	-10 °C to +45 °C	0 °C to +50 °C
Protection class	II according to EN 60335	II according to EN 60335	II according to EN 60335
Protection type	IP 40	IP 40	IP 40
Installation	Surface or over mechanism box	Surface or over mechanism box	On wall (horizontal or vertical)
Accessories	-	-	TX ATHENA, X CODE WAVE, X CODE GSM, MA 16, XR1 8A.
Connection diagram			
Dimensions			

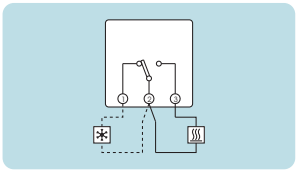
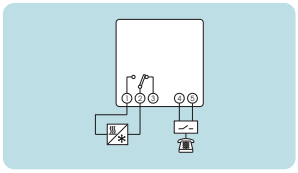
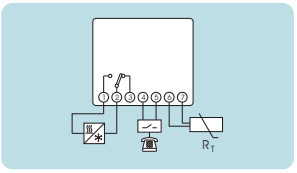
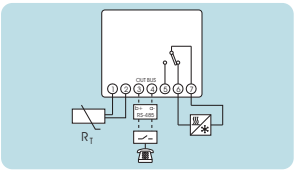
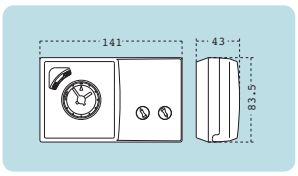
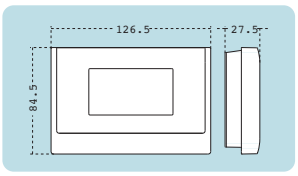
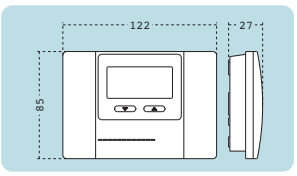
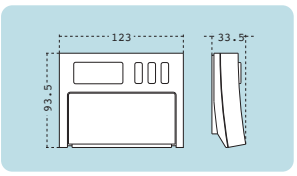
CRONOTHERMOSTATS

	ERA	VIA	NEO	THERMO X
				

Description

Cronothermostat to control air conditioning or heating installations. ANALOG (ERA) or digital versions. It admits phone controllers (X.CODE GSM or X.CODE WAVE). NEO and VIA are available in different colours (black, white and aluminium).

Features

	ERA	VIA	NEO	THERMO X
Rated voltage	2 alkaline batteries 1, 5 V AA (LR06)	2 alkaline batteries 1, 5 V AAA (LR03)	2 alkaline batteries 1, 5 V AAA (LR03)	2 alkaline batteries 1, 5 V AA (LR06)
Battery substitution time	-	10 minutes	10 minutes	-
Switching capacity	5(1) A 250 Va.c.	5(1) A 250 Va.c.	5(1) A 250 Va.c.	8 A - 250 Va.c.
Contact	Changeover	Changeover	Changeover	Changeover
Battery lie	1 year approximately	1 year approximately	1 year approximately	2 years approximately
Minim. programmable time	15 min. (Daily) / 2 h. (Weekly)	1 hour	30 min.	1 hour
Temperature accuracy	± 1 °C	± 0, 5 °C	± 0, 5 °C	± 0, 5 °C
Resolution	-	0, 1 °C	0, 1 °C	0, 1 °C
Temperature measurement period	1 minute	1 minute	30 s	-
Output relay updating	1 minute	1 minute	1 minute	-
Programming type	Daily	Weekly 8 programs / 2 temperatures + Anti ice	Weekly 8 programs / 2 temperatures + Anti ice	Weekly with 7 daily programs/ 3 temperatures
Temperature range	10 °C to 40 °C (Comfort) 0 °C to 25 °C (Saving)	15 °C to 35 °C (Comfort) 5 °C to 25 °C (Saving)	0 °C to 50 °C (with internal probe) -10 °C to +50 °C (with external probe)	2 °C to 35 °C (heating: automatic/manual) 10 °C to 35 °C (air conditioning: automatic/manual)
Operating temperature	-10 °C to 45 °C	0 °C to 50 °C	0 °C to 50 °C	0 °C to 50 °C
Operating accuracy	-	≤ ± 1, 2 s. / 24 h to 23°C	≤ ± 1, 2 s. / 24 h to 23°C	≤ ± 1, 2 s. / 24 h to 23°C
Protection class	II according to EN 60335	II according to EN 60335	II according to EN 60335	II according EN 60335
Protection type	IP 40	IP 40	IP 40	IP 40
Installation	Surface	Surface or over mechanism box	Surface or over mechanism box	Surface or over mechanism box
Accessories	-	X CODE WAVE, X CODE GSM, MA 16.	X CODE WAVE, X CODE GSM, MA 16, X TEMP.	X CODE WAVE, X CODE GSM, MA 16, X TEMP
Connection diagram				
Dimensions				

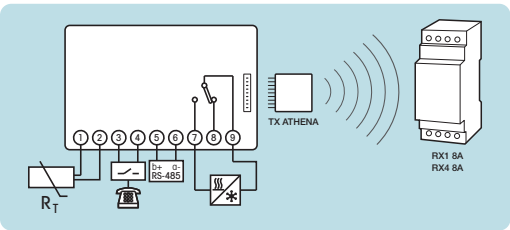
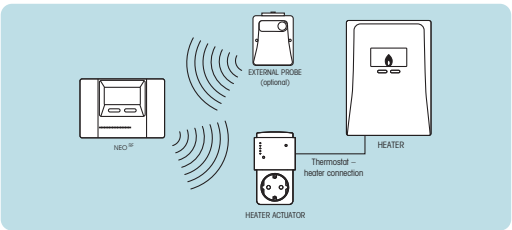
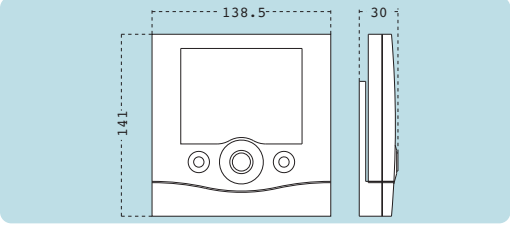
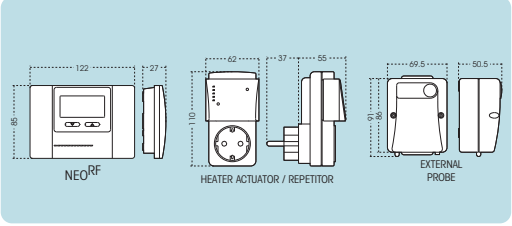
CRONOTHERMOSTATS

	ATHENA	NEO^{RF} / KIT ACCLIMATIZATION
		

Description

	ATHENA enables the acclimatization control for up to four different areas by means of extra probes (ATHENA TEMP) connected by BUS cable. It can be connected without cables (TX ATHENA) with the actuator RX4 8A; admits phone controller (X.CODE WAVE or X.CODE GSM).	The NEO^{RF} kit is the easiest way to control the acclimatization by means of a wireless solution. It is made up of a plug in actuator for the heater, a NEO^{RF} cronothermostat and an optional external probe.

Features

Rated voltage	2 alkaline batteries 1, 5 V AAA (LR03)	2 alkaline batteries 1, 5 V AAA (LR03)
Battery substitution time	2 minutes	10 minutes
Switching capacity	8 A / 250 Va.c.	5(1) A 250 Va.c.
Contact	Changeover	Changeover
Battery life	1 year approximately	1 year approximately
Minimum programmable time	30 min.	30 min.
Temperature accuracy	± 0, 5 °C	± 0, 5 °C
Resolution	0, 1° C	0, 1 °C
Temperature measurement period	30 seconds	30 seconds
Output relay updating	-	1 minute
Programming type	Weekly with 7 daily programs/ 4 temperatures	Weekly with 8 daily programs/ 2 temperatures + anti ice
Temperature range	2 °C to 35 °C approx.	0 °C to 50 °C (internal probe) -10 °C to +50 °C (external probe)
Operating temperature	0 °C to 50 °C approx.	0 °C to 50 °C
Protection class	II according to EN 60335	II according to EN 60335
Protection type	IP 40	IP 40
Installation	Surface or over mechanism box	Surface or over mechanism box
Accessories	X CODE GSM, X CODE WAVE, MA 16, X TEMP, TX ATHENA, ATHENA TEMP, RX1 8A, RX4 8A	-
Connection diagram		
Dimensions		

TELEPHONE CONTROLLERS

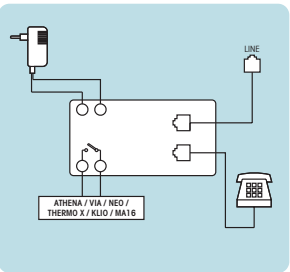
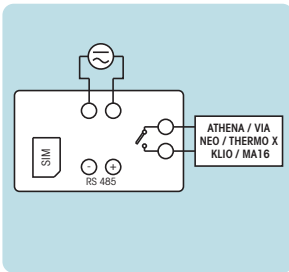
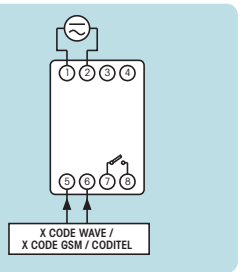
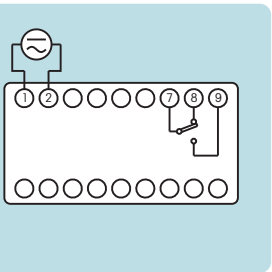
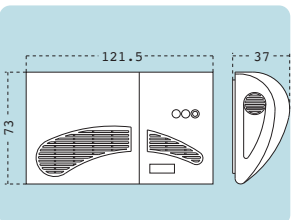
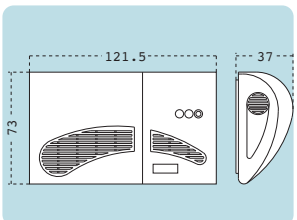
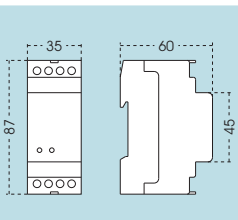
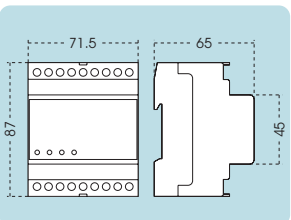
	X.CODE WAVE	X.CODE GSM	MA 16	CODITEL
				

Description

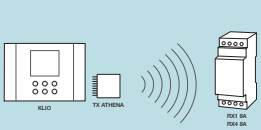
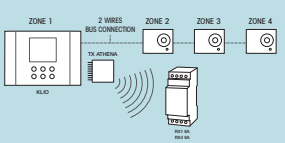
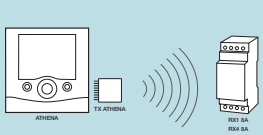
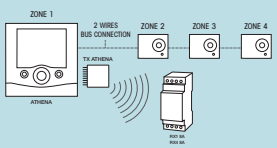
They enable to act in the acclimatization installation by means of mobile or land telephone line.

CODITEL is a telephone remote controller whose main difference is that it reacts to missed call, so the activation or deactivation of any electrical device is free. This means that the mobile phone acts like a remote control. The activation time of the relay is adjustable meaning the unit can easily be configured for operating garage doors and gate openers (which are some of the most common applications) which allows you to add the unit to an existing installation with existing remote controllers, giving the user the option of using their phone or remote control to operate the system.

Features

	X.CODE WAVE	X.CODE GSM	MA 16	CODITEL
Definition	Device for the ON/OFF remote control by means of land telephone line.	GSM telephone controller for the ON/OFF control by means of SIM card. It is possible a BUS connection with the cronothermostat for individual areas control	Connected with X.CODE GSM, X.CODE WAVE and CODITEL it enables controlling loads up to 16 A. It turns on or off and it answers with the state of the contact	
Features	Rated voltage: 230 Va.c. / 50 Hz 1 output relay (0,5 A – 125 Va.c.). For 16 A use MA16. ON/OFF manual control and indicator led. Telephone cable included to connect with the telephone line. Mounting on surface or over mechanism box.	Rated voltage: 230 Va.c. / 50 Hz 1 output relay (5 A – 230 Va.c.). For 16 A use MA16. Manual control ON/OFF and indicator led. Mounting on surface or over mechanism box	Rated voltage: 250 Va.c. (-15% / +10%) Output: mechanic relay 16 A / 250 V with contact "Normally Close" (NC). DIN rail mounting.	CODITEL turns ON, OFF, ON timing, OFF timing or relay state change by means of missed calls or SMS. CODITEL can also send a SMS answering the state of the installation. It is possible to add up to 100 different users
Connection diagram				
Dimensions				

THERMOSTATS AND CRONOTHERMOSTATS ACCESORIES

	TX ATHENA	ATHENA TEMP	RX1 8A	RX4 8A
				
Features				
Definition	It converts the thermostat KLIO or the cronothermostat ATHENA in wireless transmitters.	Programmable temperature probe used to control different areas by means of ATHENA.	Waves actuator with one output, for KLIO or ATHENA. It receives the TX ATHENA signal. RX.ANT antenna included.	Waves actuator with four outputs for ATHENA. It receives the TX ATHENA. RX.ANT antenna included.
Rated voltage	-	Alkaline batteries 1, 5 V AAA (LR03).	230 Va.c.	230 Va.c.
Output control	-	-	1 Changeover relay 8 A/250 Va.c.	3 Changeover relays and 1 NA relay 8 A / 250 Va.c.
Installation	Inserted into KLIO or ATHENA.	Surface	DIN rail	DIN rail
Connection diagram	Wireless connection 	Zone control 	Wireless connection 	Zone control 

	RX.ANT	X. TEMP
		
Features		
Definición	External antenna for RX1 8A or RX4 8A.	External probe for THERMO X, NEO, ATHENA.
Frequency	433, 92 ±10 MHz.	-
Impedance	50 Ω	-
Cable length	4, 5 meters.	2 meters (up to 40 meters) and 1mm^2.
Operating temperature	-	-40 ºC to +60ºC
Protection class	-	IP 66