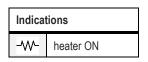


DESCRIPTION

REF-BERI-SM is a compact controller that controls heating elements (bain marie). It controls one **PTC** sensor in range of -19÷+99°C (-2.2÷+210°F). It has 2 relays: one heater **relay (30A)** and one ON-OFF **relay (12A)** for the cabinet's lamp. Also, it has an OFF state, in which all relays are OFF and oF is displayed.

INDICATIONS AND BUTTON OPERATIONS



button	Operations					
	pressed once	pressed more than 3 sec	pressed together			
↓	SET POINT indication confirm new value	-	-			
★ ⊕	-	ON/OFF controller	enter parameter's menu			
A	-	-				
SET	cancel new parameter value	-				

PROGRAMMING THE PARAMETERS

By pressing at the same time [SET] and [], [] we access the parameters menu.

The first parameter "SP" is displayed and with [], [] we scroll into the parameters with the order they appear to parameters table below.

By pressing [SET] the value of the parameter is displayed and with the [], [] we change the value.

By pressing [\] we **confirm** the new value and the name of the parameter is displayed.

By pressing [SET] we cancel the new value and the name of the parameter is displayed.

By pressing [we exit the parameters menu.

U SWITCHING ON/OFF THE DEVICE

By pressing motre than 3 sec the button [] we switch ON or OFF the device.

TECHNICAL SPECIFICATIONS

Power supply: 230VAC 50/60Hz / Maximum power consumption: 3W

It is recommended to use a power supply safety switch: fuse 0,5A (not included)

Cabinet's temperature sensor PTC 1K 25°C / Accuracy: 0.5°C

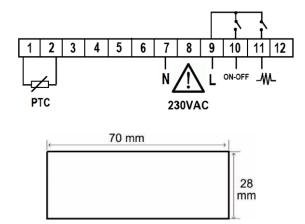
Relay for heater 250VAC 30A resistive load 2HP

Relay for the cabinet lamp or fan ON/OFF 250VAC 12A

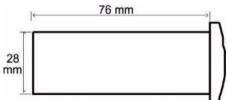
Operating temperature: -15÷+55°C / Storage temperature: -20÷+80°C

The device is mounted through panel hole 29x71mm and is restrained with two plastic side brackets / Connection with terminal blocks 18A

CONNECTIONS - DIMENSIONS







PARAMETER TARI E

PARAMETER TABLE								
#		description	min	max	REF-BERI-SM	UOM		
1	SP	SET POINT: temperature control of the cabinet	SL	SH	75	°C		
2	SL	minimum temperature limit of SP	-18	+25	25	°C		
3	SH	maximum temperature limit of SP		98	90	°C		
4	di	differential relay function	1	8	5	°C		
5	A.J	zero adjustment of temperature sensor	-9	10	0	°C		

ALARM TABLE

1	F1	cabinet sensor malfunction
---	----	----------------------------

The alarms are automatically deactivated when the cause of the alarm disappears.

Made in Greece.









ATTENTION according to safety standards, the device must be properly positioned and protected from any contact with electrical parts. All parts that provide protection must be fastened in such a way that they cannot be removed without the use of tools. ATTENTION: disconnect the power supply of the device before proceeding to any kind of maintenance. ATTENTION: do not place the device near heat sources, equipment containing strong magnets, in areas affected by direct sunlight or rain. ATTENTION: prevent electrostatic discharges at the side slots of the device and sharp objects from been inserted. ATTENTION: separate the signal's cables from the power supply's cables to prevent electromagnetic disorders. Signal cables must never be in the same pipe with the power supply cables. Use the device only as described in this document, not to use itself as a security device. The device must be disposed of in accordance with local standards for the collection of electrical and electronic equipment. Read and keep these instructions.

The device is under two year's guarantee of good operation. The guarantee is valid only if the manual instructions have been applied. The control and service of the device must be done by an authorized technician. The guarantee covers only the replacement or the service of the device.

KIOUR preserves the right to adjust its products without further notice.