WASHING MACHINE DEVICE & VACUUM PACKAGING Model MAN

KIOUR

DESCRIPTION

MAN is a device for washing machine and vacuum packaging applications. It features a **digital door input** with NC contact and **3 timers** per second controlling three relays.

CIRCLE FUNCTION

INDICATIONS	
	relay 1 ON
	relay 2 ON
	relay 3 ON
dor	open door
End	end of cycle

A full cycle starts with the door closing and ends with the door opening. When switching on the device, we must open and close the door once for the cycle to start.

When the **door switch is open**, all relays are switched off and the **display shows "dor**".

When the door switch is closed, the following cycle starts :

- Relay 1 is activated, the indicator lights up and the time t1 starts counting. The display shows the time t1, which counts down
- When time t1 is over, relay 1 is switched off and the display goes off
- Immediately relay 2 is activated, the indicator lights up and the time **t2** starts counting. The display shows the time **t2**, which counts down
- When time **t2** is over, relay 2 is switched off and the display goes off
- Immediately the time t3 starts counting. The display shows the time t3, which counts down. No relays are activated during this time.
- When time t3 is over, relay 3 is activated, the indicator lights up and remains on until the door is opened. **"End"** appears on the display.
- When the door is opened, the **relay 3** switches off, the display goes off and the display shows **"dor".**

If the door opens in the middle of the cycle, the relays are switched off, the display shows "dor" and the cycle will start from the beginning when the door is closed.

TIME SETTING t1

To set the time t1, the door must be open.
Holding steady [↵] appears the time t1 on the screen and with, [▲], [▼] we change its value. The new value is automatically registered and works accordingly when the door is closed

TIME SETTING t2

To set the time t2, the door must be open.
Holding steady [**SET**] appears the time t2 on the screen and with, [▲], [▼] we change its value. The new value is automatically registered and works accordingly when the door is closed

AUTOMATIC OR MANUAL START CYCLE OPERATION

If the parameter **bUt = 0**, the cycle starts **automatically** when the door is closed.
If the parameter **bUt = 1**, the cycle is started **manually**: the door must be closed, the display shows the time t1 and pressing [▲] the cycle begins.

ON/OFF DEVICE

The device can be switched OFF at any time. Pressing [▲] + [▼] simultaneously turns the device **ON or OFF**.

PROGRAMMING PARAMETERS

To adjust the parameters, the door must be open. Pressing [↵] + [SET] **simultaneously** enters or exits the parameter menu.
The first parameter " **t1** " is displayed and with [▲], [▼] show the other parameters as shown in the parameter table.
By pressing [**SET**] the value of the parameter is displayed and with the [▲], [▼] we adjust the value.
By pressing [↵] **or** [**SET**] we **confirm** the new value and the name of the parameter is displayed.

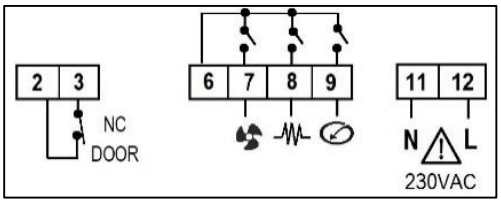
TECHNICAL SPECIFICATIONS

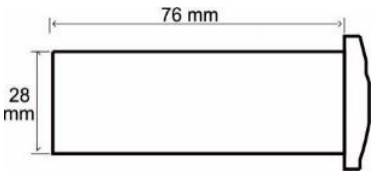
Power supply: 230VAC 50 / 60Hz / Maximum operating power: 3W
It is recommended to use a power supply safety switch: fuse 0,5A (not included)
Digital Door Input with NC Contact / Accuracy: 0.1sec
Relay 250VAC 30A (relay 1) and two relays 250VAC 10A (relay 2&3)
Operating temperature: -15÷+55°C / Storage 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

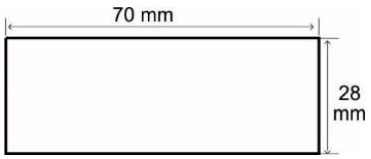
PARAMETERS TABLE

#		description	min	max	MAN	UOM
1	**t1**	**Time t1**	t1L	t1H	10	sec
2	**t2**	**Time t2**	t2L	t2H	10	sec
3	**t3**	**Time t3**	0	255	10	sec
4	**bUt**	**bUt = 0 auto** cycle start **bUt = 1 manually** cycle start	0	1	0= automatic	-
5	**Cod**	**input code** in menu **Cod = 22**	0	255	0	-
6	**t1L**	**lower** time limit **t1**	0	255	0	sec
7	**t1H**	**upper** limit of time **t1**	0	255	100	sec
8	**t2L**	**lower** time limit **t2**	0	255	0	sec
9	**t2H**	**upper** limit of time **t2**	0	255	100	sec

CONNECTION - DIMENSIONS







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.