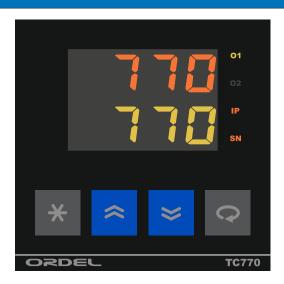
Time Relay USER GUIDE's



DEVICE DESCRIPTION

Model Tc771 devices are designed for applications which requires different timing processes. TC771 may be operated in three different modes by the usage of two timer and time unit can be chosen as seconds, minutes or hours in the interval of 0.00-99.99 and 0-9999.

100-240Vac/dc universal and 24Vac/dc power voltage models are available. TC990 is compatible with the standards of EMC and international security

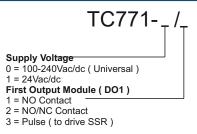
SAFETY PRECAUTIONS

- *Before using the device, please read the warnings below and this guide carefully.
- *The accidents and damages resulting from not following the warnings included in this guide are under user's responsibility.
- Take the necessary precautions in order to prevent accidents and damages that may result in case the device gets faulty.
- To not use this device in environments where flammable or explosive gases exist.
- © Do not allow metal fragments or lead wire scraps or liquid matters to fall inside this device.
- © Do no touch the terminals while the device is energized (power on)
- To Device will be out of guarantee when it gets faulty resulted from misusages.
- To not power up the device before the connections related with the device are performed in accordance with connection diagram.

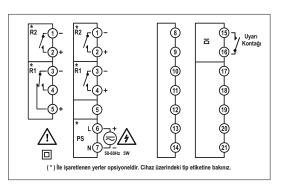
GÖSTERGE KARAKTERLERİ

ALFABETİK KARAKTERLERİN GÖSTERİMİ												
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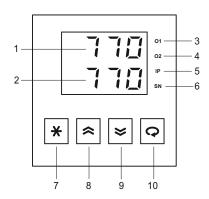
PRODUCT CODE



CONNECTION DIAGRAM



DISPLAY and BUTTONS



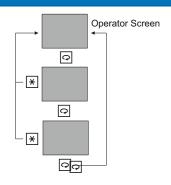
1	UPPER DISPLAY	It displays the remaining time of the first timer or the paramater names.
2	LOWER DISPLAY	It displays the remaining time of the second timer or the paramater names.
3	O1 LED	It indicates the state of first output module (DO1).
4	O2 LED	It indicates the state of second output module (DO2).
5	IP LED	It indicates the state of alarm contact (DI).
6	SN LED	It blinks with a periode of 1 second while the time passes.
7	ASTERIX BUTTON	It is used to return to Operator-Screen.
8	UPPER ARROW	It is used to increase the time that will be set or the parameter value.
9	LOWER ARROW	It is used to decrease the time that will be set or the parameter value.
10	ENTER BUTTON	It is used to access the next parameter.



TECHNICAL SPECIFICATIONS Supply Voltage 100-240Vac/dc: +%10 -%15 24Vac/dc: +%10 -%20 Power 5W,8VA Output Modules (NO Contact: NC Contact: Pulse: 24Vdc 20mA Contact Lifetime Without Load: 10.000.000 sw, With 250Vac 3A res. load: 100 year, 100.000 renewals Memory Accuracy +/- %0.01 Operation: -10...+55C, Storage: -20...+65C Environment Protection IP20 **Dimensions** Width: 72 mm, Height: 72 mm, Depth: 110mm Panel Cut-Out 68 +/-0,5 mm x 68 +/-0,5 mm Weight 292 gr

	CONFIGURATION FAGE PARAMETERS					
_	Par. 01— nd. 1	Operating Mode of First Timer (Ref Table-1)				
	i	Setting Preferences : 0 - 5				
	Par. 02— 上山	Time Unit of First Timer				
	588	Setting Preferences : SEC = Second MIN = Minute HR =				
	Par. 03— dP. 1	Decimal Point of First Timer				
	[Setting Preferences: 0 - 2				





While in normal operation state, upper display displays the remaining time, lower display displays the remaining time of second timer. This view is called Operator-Screen.

While in Operator-Screen, pressing the "\overline{\top}" key brings the set value of first timer (SET.1). pressing the "\overline{\top}" key for the second time brings the set value of second timer (SET.2).

Any set value can be changed by pressing "\oxedex" or "\oxedex" keys.

In order to return the Operator-Screen while in any time, "\(\)" key can be used.

Operation mode of the device, time unit and decimal point are set using the parameters that can be found in Configuration-Page.

Accessing configuration page and the parameters in this page are described in the next section.

ACCSESS to CONFIGURATION PAGE

In order to access the configuration page, just after energizing the device, in the interval of two seconds (while 8.8.8.8. Is displayed on screen), "\overline" and "\overline" keys should be pressed simultaneously and held while opening message appears on screen.

In configuration page, first display displays the parameter name and the second displays the parameter value. "♠" and "◄" keys change the parameter value, "♠" parameter is used to access the next parameter and "★" key is used to exit from Configuration-Page.

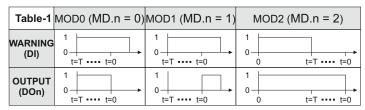
OPERATION MODES

MODE 0: When the alarm contact is ON, the time count and the selected relay are ON. At the end of the time, the relay turns OFF.

MODE 1: When the warning contact is ON, the relay is ON at the end of the timer and time. The relay output is interrupted when the alarm contact is interrupted.

MODE 2: Starts counting time when a warning contact is set and stopped. The relay is energized until the warning contact is ON and the time is expired.

TABLE1



"T" represents the set time and "t" represents the remaining time. Hached line is the active time line.

Operating modes in table are valid for both timers. "n" represents the timer number.

In MOD3, (MD.n = 3) "td=0" is the time that other timer becomes "0". Namely, if a timer is wanted to run after other timer, MOD3 should be selected. If both timers is wanted to be run in order, MOD3 should be selected for both timers.

Technical Servis:

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KK-TC990-007

