

LESSON. BREAK AND BELL RINGING DURATION SETTING OPro6 - setting: lesson beginning time, lesson duration, successive breaks duration and the bell ringing duration; enter the mode Mo Tu WE TH FR START by pressing OK; :F8RF Ø With ◀ ► select the settings bank for all time 8:00# settings; it is possible to select one of the banks: bRok / or bRok2, where it is possible Mo Tu WE TH FR ST 0 to set various times (e.g. bRok 1- std lessons, bRok2 - short lessons); the default active one :F88 is bRok ; switching to the bank bRok2 is real-800+ ized by means of IN2 control input; in order to enter settings edition for the given bank press OK: 68 R Mo TU WE TH FR STA dows toggling by means of the cursors ◀ ▶; ilar Window O - SEARE - lesson beginning hour 800 and lesson days setting (these days the bell will be operating in the auto mode): press OK to enter; • with • > set the les-son beginning hour; acknowledge with OK; Mo Tu We TH FR ST ST Week division co mbinations with • set the lesson beginning minute and Mo Tu We Th FR SHARH press OK: with select lesson days (for the 2 SA SU 3 Mo Tu We Th Fr SA SU automatic mode setting for the bell); there are 8:20# B three week division modes available: Monday Friday, Saturday and Sunday, all week; after acknowledgement with OK the lesson duration setting win I will be open; Window @ - LESS- lesson duration setting in minutes: press OK to enter: [●] with [●] select lesson duration in minutes: after acknowledgement by pressing OK the bell ringing duration setting window will be open 9: Window • - bELL - bell ringing duration setting in seconds: press OK to enter; • with • cursors select bell ringing duration in seconds; after selection acknowledgement by pressing OK the break duration setting window will be • open;; Window G - PRUSE - the break duration viewing and setting in minutes: press OK to enter; CO with 4 > cursors select the break to set and press OK; @ with 4 > select the break duration within the range between 0 and 60 minutes; acknowledge with OK; @ with 4 > cursors select successive break no. to set; maximum number of the breaks is 20 \mathbf{G} ; enter edition by pressing $\check{O}K$; the marker E_{ad} is designed for the last break marking – the ringing program will be running until the first marker ξ_{ad} near the break no. is met (further programmed breaks will not be realized). HOLIDAY BREAK SETTING Oholi d - holiday break setting enter the mode by pressing Ø, Ø With ◀ ► set activity ☐n or Ûл inactivity **DFF** for the holiday Gп break; acknowledge by pressing OK; RR 10 ß 9 • Selecting **[]**FF causes he holiday break settings main win-4686 dow 0 SEOP OFF OFF beginning day SEARE or the ending day SEOP for the holiday break: press OK:: O With < ▶ cursors select an appropriate year; acknowledge selection by pressing OK;</p> OKWith () cursors select the month's day; acknowledge selection by pressing OK; O After the settings acknowledgement the holiday break ending setting window 5±0P will be open; O, O i O in a intervention of the holiday break beginning day set the year, month and day; After the setting acknowledgement the holiday break beginning day set the year. setting window will be open SHARH 3. It is possible to exit any submenu to a higher level at any moment, without settings saving, by means of pressing the key 🕑 or ϑ . **OPERATING MODE CHANGE (AUTOMATIC, MANUAL, OFF)** CR R * °R mode (); successive key () pressing will cause 8:08 8:08 8 6 *

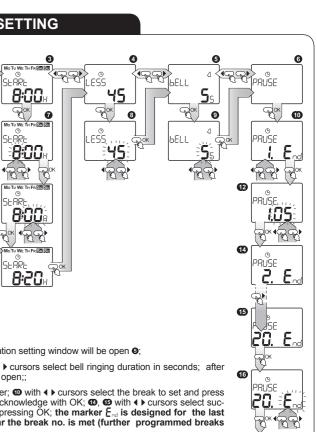
8:08

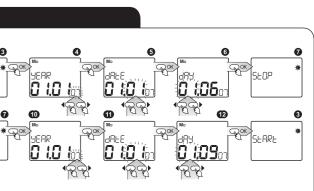
8:08 8

8:08 8

changeover between **6** & **b** the manual mode and the OFF mode. The automatic mode change (system operating according to the previous settings) - if the main window is open and the manual mode is set 9 opressing the key of will cause entering the automatic mode O; successive key O pressing will cause changeover between the OFF and auto mode (0 & 2). Exit from the OFF mode (the relay is OFF permanently) - if the main window is open and the OFF mode is set, I pressing the key B will cause entering the manual mode I, pressing the key (9) will cause entering the automatic mode (9)

It is possible to exit any submenu to a higher level at any moment, without settings saving, by means of pressing the keys 🕑 or 🖲.





The manual op mode change (the bell manual switching ON / OFF) - if the main window is open and the automatic mode is set () I pressing the key () will cause entering the manual

ASSEMBLY

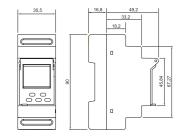
- 1. Disconnect the electric network by means of an appropriate cut-off, current-limiting circuit-breaker or separator.
- 2. Check if there is no any voltage between power leads by means of an appropriate gauge.
- 3. Mount the **SDM-10** controller on TH 35 rail.
- 4. Connect the system leads to the terminals according to the electrical diagram.
- 5. Connect power supply circuit.

(IN)

UNIT DIAGRAM LCD KEYE 12 (A1) (11) uС (A2

CASING DIMENSIONS

RTC



the SDM product family.

<u>SDM - xx/U</u>

A1 A2 IN1 IN1 IN2 IN2 w⊧ 0n © 0]-[]9 Ô 8:08 School Mg CO Ook bell 24 HC/S (22) 21 12 11 14 22 21 24 DEVICE CONTROL There are two independent control inputs: • Control input 1 (alert) - after L or N signal comes on the input terminal the manual op mode is set at once and two output relays are ON, and the display shows the message RLERE. After setting the input triggering OFF, the relays will be OFF, but the unit will remain in the manual mode for about 1 minute, and then will enter the op mode set before ALERT input operating. Control input 2 (bank 2) - after L or N signal comes on the input terminal the display shows bRok2 and the bank 2 is set active - the settings declared for bRok2 in the auto mode (e.g. short lessons) are binding. After setting the input triggering OFF settings programmed for bRnk | will be PRODUCT FAMILY restored (e.g. standard lessons). The SDM-10 controller is a member of MAIN RESET Power supply: SDM-10: 230 V~ • In order to cancel the timer settings time, date, data function activity, etc.) It is neces-MOTU WE TH FR SAIS SDM-10/U: 24 ÷ 250 V≂ * * sary, in the main window, to press and hold URLE *** 30 ÷ 300 V--simultaneously (© i [®]) for 3 seconds; All the display fields will be illuminated;; 8:08 🖉 88:88 • After a while the timer will enter the date and Device version 10 - basic time setting mode. NOTE: In order to cancel all the saved programs it is necessary to hold OK key additionally.

CONNECTIONS

Zg

0

(Q) (G

(ALERT)

(BANK 2)

L(+) / N(-)

Control input 1

Control input 2

L(+)ø-

N(-) Ø

Device type	
WARRANTY CARD	
There is 24 months guarantee on the product	
l J	 ZAMEL provides a two-year warranty for its products. The ZAMEL warranty does not cover: a) mechanical defects resulting from transport, loading / unloading or other circumstance b) defects resulting from incorrect installation or operation of ZAMEL products; c) defects resulting from any changes made by CUS TOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold; d) defects result from force majeure or other aleatory events for which ZAMEL is not liable; e) power supply (batteries) to be equipped with a devic in the moment of sale (if they appear); All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect; ZAMEL will review complaints in accordance with existing regulations.; The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL. Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepant between the goods and the contract.
Salesman stamp and signature, date of sale	
	WARRANTY CARD There is 24 months guarantee on the product

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DESCRIPTION	TECHNICAL DATA
The SDM-10 school bell controller is	
designed for acoustic signalling con- trol at schools using the school bells	Power term
(e.g. DNT-212, DNS-212, DNT- 212M,	Rated vo
DNS-212M). The system control runs in an automatic mode according to the pre-	Rated frequ
set program. Program setting is operated	Rated cu
by means of selecting the lesson duration,	Channels qua
breaks duration and defining the beginning hour. The system is ready to implement	Pro
some specials functions (alert bells, short	Operating m
lessons) by means of programmable control	Summer / winter time char
as a kit for assembling, EW-01 Electronic	LCD panel illumination c
School Bell. In case of power supply mal-	External Time measure acc
function the unit battery sustain enables all settings saving and maintaining.	Clock sustain
an settings saving and maintaining.	Program sustair
CAUTION:	Trigger tern
Before installing the device in the	Relay output tern
switchboard	Relay contacts param
or starting the system operation	Connection terminals qu
in order to pro-	Connection wire se
gramme it, the battery security	Operating temper
separator should	Operating po Casing fast
be removed against	Casi
discharging.	Protection
	Overvoltage cate
FEATURES	Pollution
• Easy time table programming algorithm,	Dimen
Easy lesson time changeover: normal / short RTC circuit and built-in calendar	N Oten dead and
 Bell ringing duration setting possible Alert bells programming possible 	Standard confo
 2 control inputs for running programmed functions. 	
• Two power supply versions: 230 V or 24 ÷ 250 V 30 ÷ 300 V	APPEARANCE
 Relay output — two changeover contacts 	APPEARANCE
 maximum load 16 A, Clock and program data battery sustain 	
LCD display LED illumination	
	Power terminals
The device should be connected to a singlephase system according	
to current standards. The device	A1 A2 N1 N1 N2 N2
connections will be described in this manual. Only qualified electri-	
CAUTION cians are allowed to mount, con-	Display
nect and adjust the device. It is necessary to read this manual and know the unit functions	
read this manual and know the unit functions before the device mounting. Do not disassembly	
read this manual and know the unit functions before the device mounting. Do not disassembly the device casing or you will lose any warranty rights and expose yourself to the electric shock	Control buttons
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read this manual and know the unit functions before the device mounting. Do not disassembly the device casing or you will lose any warranty rights and expose yourself to the electric shock hazard. Before mounting operation make sure of disconnecting the connection wires from the electric network. Use a cross-head screwdriver of 3.5 mm diameter to mount the device. The	

INSTRUCTION MANUAL

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. DATA	
SDI	W - 10
Power terminals:	A1, A2
Rated voltage:	SDM-10: 230 V~ (-15 ÷ +10 %) SDM-10/U: 24 ÷ 250 V~, 30 ÷ 300 V
Rated frequency:	50 / 60 Hz
Rated current:	2 W / 14 VA
Channels quantity:	1
Program:	mannual cycle bell control
Operating modes:	manual, automatic
/ winter time changing:	automatic, manual
anel illumination colour:	amber
External input:	yes
ime measure accuracy:	max. ±1 s / 24 h przy temp. 25 °C
Clock sustain time:	3 years
Program sustain time:	10 years
Trigger terminals:	IN1, IN1, IN2, IN2
Relay output terminals:	11, 12, 14, 21, 22, 24
ay contacts parameters:	2 NO/NC-16 A/250 V AC1 4000 VA
ction terminals quantity:	12
Connection wire section:	0,2 ÷ 2,50 mm ²
Operating temperature:	-20 ÷ +60 °C
Operating position:	optional
Casing fastening:	TH 35 rail (according to PN-EN 60715)
Casing IP:	IP20 (PN-EN 60529)
Protection class:	П
Overvoltage category:	П
Pollution level:	2
Dimensions:	double-module (35 mm) 90x5x66 mm
Weight:	140 g
Standard conformity:	PN-EN 60730-1; PN-EN 60730-2-1; PN-EN 61000-4-2,3,4,5,6,11



