

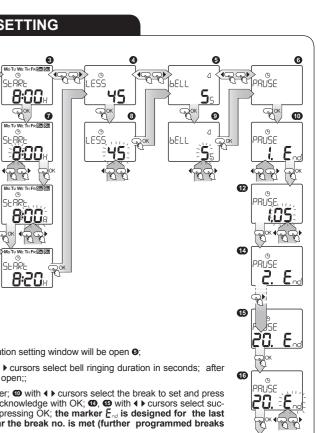
#### LESSON. BREAK AND BELL RINGING DURATION SETTING ●Pro6 - setting: lesson beginning time, lesson duration, successive breaks duration and the bell ringing duration; enter the mode Mo Tu WE TH FR START by pressing OK; :F8RF Ø With ◀ ▶ select the settings bank for all time 8:00# settings; it is possible to select one of the banks: bRok / or bRok2, where it is possible 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 8:20x 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: <sup>●</sup> with <sup>●</sup> 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 $\mathsf{E}_{ad}$ is designed for the last break marking – the ringing program will be running until the first marker $\xi_{ad}$ near the break no. is met (further programmed breaks will not be realized). It is possible to exit any submenu to a higher level at any moment, without settings saving, by means of pressing the keys 🕑 or 🖲. HOLIDAY BREAK SETTING Thold - 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 5E0P 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 $\vartheta$ . **OPERATING MODE CHANGE (AUTOMATIC, MANUAL, OFF)** CR R \* °R mode (); successive key () pressing will cause 8:08 8:08 8 6 \*

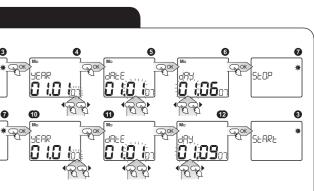
8:08

8:08 8

8:08 8

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)





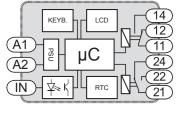
The manual op mode change (the bell manual switching ON / OFF) - if the main window is open and the automatic mode is set () I pressing the key () will cause entering the manual

changeover between **6** & **b** the manual mode and the OFF mode.

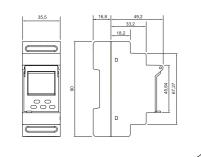
# ASSEMBLY

- 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.

# **UNIT DIAGRAM**

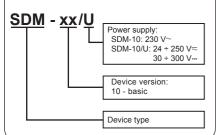


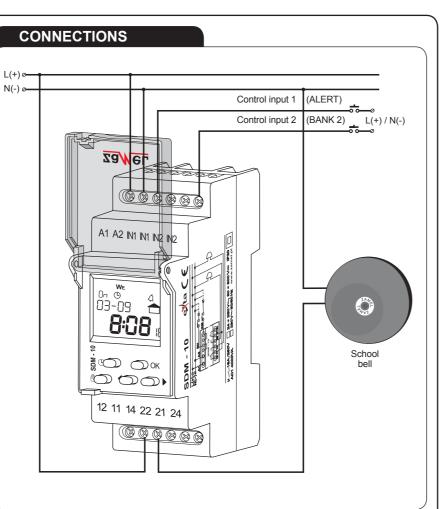
# **CASING DIMENSIONS**



# PRODUCT FAMILY

The SDM-10 controller is a member of the SDM product family.





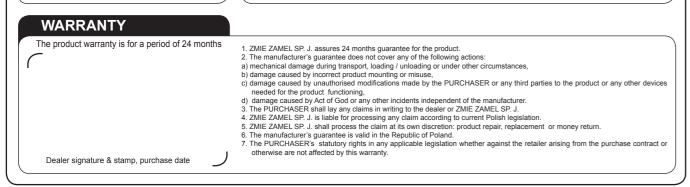
# **DEVICE CONTROL**

- 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 bBnk2 and the bank 2 is set active – the settings declared for bBnk2 in the auto mode O (e.g. short lessons) are binding. After setting the input triggering OFF settings programmed for  $bR_{nk}$  ; will be restored (e.g. standard lessons).

#### MAIN RESET Ø 8 \* \* URLE \*\*\* 88888 🖬 🏛 8:08 8 88:88

• In order to cancel the timer settings time, date, data function activity, etc.) It is necessary, in the main window, to press and hold simultaneously (⊕ i <sup>®</sup>) for 3 seconds; All the display fields will be illuminated;; • After a while the timer will enter the date and time setting mode

NOTE: In order to cancel all the saved programs it is necessary to hold OK key additionally.



The SDM-10 school bell controller is designed for acoustic signalling control at schools using the school bells (e.g. DNT-212, DNS-212, DNT- 212M, DNS-212M). The system control runs in an automatic mode according to the preset pro- gram. Program setting is operated by means of selecting the lesson duration, breaks duration and defining the beginning hour. The system is ready to implement some specials functions (alert bells, short lessons) by means of programmable control inputs. The controller may be manufactured as a kit for assembling, EW-01 Electronic School Bell. In case of power supply malfunction the unit battery sustain enables all settings saving and maintaining.	ę	ta	Zakład M J.W. [ ul. Zielona Tel. +48 (32) 2 www.zamelcet
<ul> <li>Easy time table programming algorithm,</li> <li>Easy lesson time changeover: normal / short,</li> <li>RTC circuit and built-in calendar,</li> <li>Bell ringing duration setting possible,</li> <li>Alert bells programming possible</li> <li>2 control inputs for running programmed functions,</li> <li>Two power supply versions: 230 V or 24 ÷ 250 V, 30 ÷ 300 V</li> <li>Relay output — two changeover contacts, maximum load 16 A,</li> <li>Clock and program data battery sustain,</li> <li>LCD display LED illumination.</li> </ul> The device should be connected to a single-phase system according to current standards. The device connections will be described in this manual. Only qualified electricians are allowed to mount, connect and adjust the controller. It is neces-	The SDM-10 sch for acoustic signa the school bells of 212M, DNS-212M an automatic moo gram. Program sc selecting the less defining the begin to implement som short lessons) by inputs. The control kit for assembling In case of power battery sustain e	ool bell controller is designed alling control at schools using e.g. DNT-212, DNS-212, DNT- 1). The system control runs in le according to the preset pro- etting is operated by means of in duration, breaks duration and ning hour. The system is ready e specials functions (alert bells, means of programmable control ller may be manufactured as a EW-01 Electronic School Bell.	
APPEA APPEA CAUTION nected to a single-phase system according to current standards. The device connections will be des- cribed in this manual. Only qualified electricians are allowed to mount, connect and adjust the controller. It is neces-	<ul> <li>Gasy time table</li> <li>Gasy lesson time</li> <li>Gasy lesson time</li></ul>	programming algorithm, e changeover: normal / short, built-in calendar, ation setting possible, amming possible for running programmed func-	
mounting. Do not disassembly the device ca-	<ul> <li>Relay output — maximum load</li> <li>Clock and prog</li> </ul>	16 A, ram data battery sustain,	

SDM-10\_SDM-10/U

## INSTRUCTION MANUAL

## lechaniki i Elektroniki ZAMEL sp.j. Dzida, K. Łodzińska

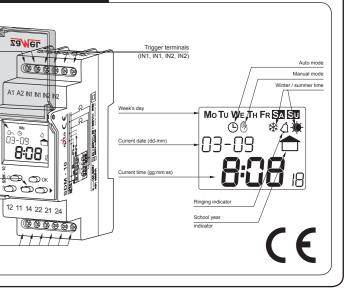
a 27, 43-200 Pszczyna, Poland 210 46 65, Fax +48 (32) 210 80 04 t.com, e-mail: marketing@zamel.pl

# IICAL DATA



SDI	M - 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
Summer / winter time changing:	automatic, manual
LCD panel illumination colour:	amber
External input:	yes
Time 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
Relay contacts parameters:	2 NO/NC-16 A/250 V AC1 4000 VA
Connection terminals quantity:	12
Connection wire section:	0,2 ÷ 2,50 mm <sup>2</sup>
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:	н
Overvoltage category:	н
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

### RANCE



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 H3CR-G8EL-31 AC100-120

 H3CR-H8RL AC100-120 M
 H3CR-HRL AC100-120 M
 H3CR-A8-301 AC24-48/DC12-48
 H3CR-H8RL AC/DC24 S
 H7AN-2D DC12-24

 H5CN-XANS DC12-48
 H3CA-8 DC110
 H7AN-W4DM DC12-24
 H7AN-4DM DC12-24
 H7AN-RT6M AC100-240

 H3CA-8H AC200/220/240
 MTR17-BA-U240-116
 PM4HSDM-S-AC240VS
 PM4HSDM-S-AC240VSW
 PO-405
 600DT-CU
 H3Y-2-B DC24

 30S
 PM4HF8-M-DC24V
 PM4HS-H-DC12VSW
 H3Y-2-B AC100-120 10S
 H3Y-2-B AC100-120 30S
 H3C-R
 H3CR-A8-301 24-48AC/12 

 48DC
 H3CR-A8E 24-48AC/DC
 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC