Digital carillon - amplified system 200 Watt.
Some functions can be programmed via Browser, Wireless, Ethernet, Internet, mobile phone, smartphone or tablet.
Can store 10.000 melodies. Manages up to 122 outputs via twisted pair or via radio (optional)
Guided instructions on a 9" LCD display

FUNCTIONING CHARACTERISTICS
Easy user instructions on a 9" LCD display.
Multilingual menu. Automatic daylight saving time. Perpetual liturgical calendar.

TIME PROGRAMMING:
Perfect synchronism to manage all types of time programming requirements.
Automatic programming of all fixed and variable holy days, automatic daily programming, weekdays, pre-holidays, holidays, weekly, periodic, yearly programming. Modify/checking of any programming. Automatic cancelling of programs which will no longer be repeated. Random and cyclical bell sound execution. Quick function buttons for immediate playing. Just the simple touch of a button to view the daily events on the display.

BELL SOUND PROGRAMMING:
Up to 10.000 bell sounds can be programmed from the display, internal keypad or (optional) external keyboard.
Ability to program and save melodies , tolls, Angelus, peals, bell sounds in sequence selected by number and playing time, etc.
Each bell sound can be repeated, copied, modified, relocate its speed and manipulated in any possible way as well as being played in sequence for a certain amount of minutes and times. Guided instructions which do not require particular abilities, accessible to all. Time programming and recording of Midi and Mp3 files (max. 128 kbit/s cbr) using an external SD card.

TOWER CLOCK (optional circuit board RL085)
Full management of clock tower hands. Automatic gaining after power cut.
Power supply at 24, 110 or 220 Volts. Impulse every 30, 60 or 1 sec.

SECONDARY CLOCK (optional circuit board RL085)
Full management of secondary clock hands. 12 or 24 hour clock. Adjustable voltage from 12 to 24 Volts 1A. Impulse every 30 or 60 sec.

BELLS (optional circuit board RL085)
Using twisted pair, fibre optic (optional) or radio connection (optional) the device can manage up to 122 outputs for real bells as well as service programs (turning on lights, opening of doors, etc.).

HOUR STRIKE (optional circuit board RL085)
All types of hour strikes available : regional, national and international types according to local traditions.
Hour strike repetitions can be personalised. Automatic Westminster clock with the ability to play any type of melody or bell program before or after hours/quarters strikes.

SERVICES (optional circuit board RL085):
Automatic lighting of clock faces, door openings, alarms systems, heating/air-conditioning, luminous crosses, enable/inhibit time programming, etc. even by remote control.

QUICK FUNCTION KEYS
10 keys for playing recurring bell sounds and for enabling/inhibiting time programmed bell sounds and clock strike.

BELL SOUND:
Hi-Fi audio quality sound. Reproduction of bell sounds of different various bell sizes, from deep bass notes up to the shrill notes, in every possible combination. Adjustable volume of the bell peal sound which can be programmed individually according to the size of the bell sound to be reproduced.
Digital Control of general volume, low tones and treble, 2 AUX Inputs and 2 AUX Outputs, night service volume. 200 Watt, class D Digital amplifier.

SAFETY MEASURES:

Access codes can be programmed to prevent tampering.
Hammers individually inhibited when the real bell motors are activated according to the momentum time of each bell peal.

SPECIAL FUNCTIONS:

➢ Ability to enable/inhibit time programming, amplifier output, etc. using the remote control.
➢ All time programming of bell sounds are stored on inerasable un-volatile memory (no power necessary).
➢ The 10Mb LAN Ethernet port is integrated inside the machine and enables you to gain access to the LAN or Internet network by means of an IP address and a gateway which allow you to transmit and receive data via IP just as if you were using a normal server to gain access to various menus inside the machine.
➢ GSM remote control. Allows start-up of a melody or service program by means of a tone telephone or GSM mobile phone.
➢ Ability to reset clock via radio (optional DCF) or satellite (via optional GPS system) or NTP internet server (Network Time Protocol requires internet connection).
➢ Receiver mod. RST-86 for radio time synchronization by means of DCF atomic clock via radio
➢ Receiver mod. GPS-3600 for radio time synchronization by means of GPS atomic clock via satellite
➢ GSM-3600 remote control. To start a melody or service program by means of a tone telephone or GSM mobile phone.
➢ 10.000 channels remote control mod. TX-3500. Functioning range from 300 mts. to 1Km. Frequency: 433 Mhz
➢ 4 channel remote control mod. TX-4CH. Functioning range up to about 100 mts.
➢ 61 note dynamic midi keyboard mod. MD61 to play melodies and/or save them.
➢ Relay board with 8 relays (RL085) to manage tower clock, secondary clock or hammers/motors/service programs, etc.
➢ Reproduction of Mp3 files (max. 128 kbit/s cbr) from SD-card
➢ Reproduction and recording Midi Standard files
➢ TCS-3500 Interface to detect power failure (blackout) in the bell tower.
➢ Class "D" 200 Watt. rms on 4 Ω amplifier.

TECHNICAL CHARACTERISTICS:

Container	: Metal box
Menu viewing	: LCD 9" display
Multilingual menu	: Italian, English, French, Spanish, Portuguese, Polish, German Portuguese, Russian, Romanian, Lithuanian
Min. time programming time between two melodies	: 1 minute
Clock precision	: +/- 0,1 seconds/day
Clock precision adjustment	: VIA SOFTWARE +/- 0,1 seconds/month
Absolute clock precision adjustment	: VIA RST Receiver (DCF or GPS)
Clock memory keeping	: By means of lithium type battery (10 year life)
Time & melody programming memory keeping	: Indefinite on volatile flash memory
Functioning temperature	: From -10 to + 50 degrees centigrade
Lan-Ethernet Port	: 10 MBit/s speed
MD61 Keyboard input	: Rear Dsub 15 pole midi standard
Rear 6 poles socket	: IN/OUT RS485 data (interface for RL085 circuit board)
2 Rear Mini-Din 4 pole sockets	: DCF - GPS input signal (time & calendar automatic reset), 4 ch. & 1.000 ch. remote control receiver input or GSM
Operating power supply	: Internal Power supply with transformer. Input 230vac or 115 (on request) 47-63Hz.
Power consumption	: Min. 15 Watt – Max. 200 Watt.
Data backup	: Internal on flash – external on standard SD memory-card
Number of relay outputs available	: 122+2 (max. 15 RL085)
Max. hammers, motors, service prgs.	: Max. 120 hammers, max. 99 Peals, max. 32 service programs
Audio inputs	: 2 audio line inputs (AUX)
Audio outputs	: 2 audio line outputs (AUX).
Amplifier (only for mod. DMC3800A)	: Amplificatore in Class "D" 200 Watt. rms on 4 Ω amplifier (Optional 1000 Watt.)

AVAILABLE VERSIONS:

DMC- 3800A – Digital carillon
GM-3800 - Cast bell controller rack standard 19" with side supports (optional)

DIMENSIONS & WEIGHTS :

Version with side supports for Standard RACK 19" 4U mounting
Size (l x h x d):
430 **x** 185 **x270** mm
Weight of side supports for rack mounting:
0,65 kg.
Weight DMC 3800A
8.3 kg.

REGULATIONS:

This unit has been manufactured according to the safety and immunity rules in force and bears the EEC mark foreseen by EEC directives 89/336.