

MS1

DIGITAL SWITCH CLOCK

MS1 is three-channel digital switch clock. It is low-cost, high-performance device having many functions.

It has:

- three time dependent switching programs;
- three independent output channels;
- easy programming;
- optical port IEC 61107 Second Ed. 1996-03, which provides programming by Psion (software PsiMS1) or by PC (software MS1time);
- LCD display;
- lithium battery with 15 years data retention;
- wide range of operating voltage.

The switch clock **MS1** is intended for simultaneous control up to three time dependent switching devices connected on output bistable relays.

Available time switching programs are:

- daily cycle for heater operation;
- 7-day cycle for tariffs;
- one-year schedule based on changing sunrise and sunset times for switching lighting loads.

Each program can be placed on any output channel. Producer can prepare specially requested time schedules.

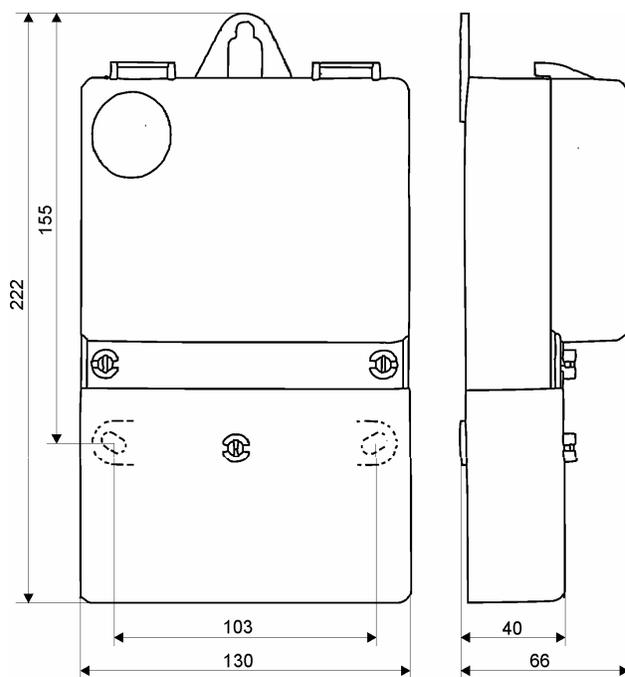
Digital clock **MS1** includes real time clock, microcomputer with keyboard and display, output relays, and power supply circuit.

Device is produced by VLSI CMOS components providing high reliability low power consumption and low-cost. Lithium battery provides energy for long time device operation without mains voltage. Mains voltage is necessary for relay switching only. Clock MS1 is assembled on one printed circuit board placed in polycarbonate plastic box.

Technical data

Clock model	MS1	Case test voltage	2kV, 50Hz, 1min
Mains voltage V_n	230V (-30%,+15%)	Up to three bistable relays with change over contacts	250V, 16A, $\cos\phi = 1$
Mains frequency f_n	40-60Hz	Contacts mechanical life	10^7 changes
Real time clock long term stability	+/-1 minute/month	Operating temperature range	-25°C, +60°C
Increment of set points	1 minute	Ambient relative humidity	20%, 90%
Battery life	≥ 15 years	Weight	650 g
Consumption	0,2 W on 230VAC	Optical port	IEC 61107 Mode A
Overvoltage protection	7kV, 1.2/50 μ s		

Assembling data



Ordering information

MS1 - **ABC**
model assembled
relays

Additional data and price list are available upon request.

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MS1-M

DIGITAL SWITCH CLOCK

MS1-M is one-channel digital switch clock. It is low-cost, high-performance device having many functions.

It has:

- three time dependent switching programs;
- easy programming;
- optical port IEC 61107 Second Ed. 1996-03, which provides programming by Psion (software PsiMS1) or by PC (software MS1time);
- LCD display;
- lithium battery with 15 years data retention;
- wide range of operating voltage.

Available time switching programs are:

- daily cycle for heater operation;
- 7-day cycle for tariffs;
- one-year schedule based on changing sunrise and sunset times for switching lighting loads.

Each program can be placed on one output channel. Producer can prepare specially requested time schedules.

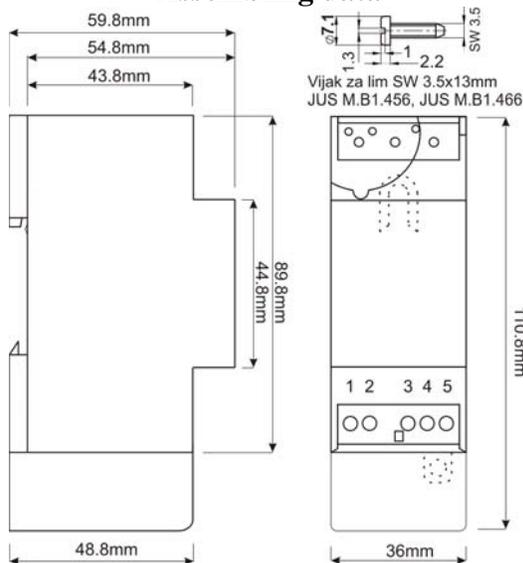
Digital clock **MS1-M** includes real time clock, microcomputer with keyboard and display, output relay, and power supply circuit.

Device is produced by VLSI CMOS components providing high reliability low power consumption and low-cost. Lithium battery provides energy for long time device operation without mains voltage. Mains voltage is necessary for relay switching only. Clock MS1-M is assembled on one printed circuit board placed in polycarbonate plastic box.

Technical data

Clock model	MS1	Case test voltage	2kV, 50Hz, 1min
Mains voltage V_n	230V (-30%,+15%)	Up to three bistable relays with change over contacts	250V, 16A, $\cos\varphi = 1$
Mains frequency f_n	40-60Hz	Contacts mechanical life	10^7 changes
Real time clock long term stability	+/-1 minute/month	Operating temperature range	-25°C, +60°C
Increment of set points	1 minute	Ambient relative humidity	20%, 90%
Battery life	≥15 years	Weight	150 g
Consumption	0,2 W on 230VAC	Optical port	IEC 61107 Mode A
Overvoltage protection	7kV, 1.2/50μs		

Assembling data



Ordering information

MS1-M A
 model assembled
 relay

Additional data and price list are available upon request.

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