# MEDEN-Opt

**Invest in a Nurse Call System
Deliver Excellence in Care**

# Quick action increases safety and can save lives !

The Meden-Opt System makes this possible: a digital optical-acoustic nurse call system designed for hospitals, nursing homes, and sanatoriums. The system is based on a two-wire power and communication bus, resistant to changes in the polarity of the wire pair. Its design ensures simple installation and intuitive operation.

## WE OFFER:

- MEDEN-Opt System
- MEDEN-Opt 2.0 System

## SUITABLE FOR USE IN:

Clinics, Hospitals

Sanatoriums, Nursing homes, Social care homes

Health-resort hospitals, Natural therapy centers

## ADVANTAGES:

- **Supportive** - Assists medical personnel by enabling simultaneous monitoring of multiple patients
- **User-friendly** - Intuitive operator panel based on web technology for real-time management and operation
- **Multifunctional** - Aggregates data from multiple independent sensors and devices
- **Always available** - Built-in self-check functionality; can notify technical staff of issues to ensure the system is fully operational whenever a patient needs it
- **Contactless** - Focuses on detecting patient risks independently using non-contact sensors (Meden-Opt 2.0)
- **Mobile notifications** - Configurable alerts for technical, nursing, and medical personnel; auto-notification based on duty schedules (Meden-Opt 2.0)

## FEATURES:

- **Digital two-wire system** (note: Meden-Opt 2.0 uses hybrid cabling)
- **Polarity-independent wiring** - operates regardless of wire orientation (note: Meden-Opt 2.0 uses hybrid cabling)
- **Overload protection for communication lines** (note: Meden-Opt 2.0 uses hybrid cabling)
- **Self-monitoring** - The system continuously checks installation status
- **Built-in event logging** - up to 25,000 events (Meden-Opt 2.0 offers unlimited logging)
- **Expandable with voice communication** (available with Meden-Opt 2.0)
- **Free software** (Meden-Opt 2.0 requires a paid license)
- **Seamless integration with existing infrastructure** - Quick expansion of previously installed systems
- **Ongoing system updates** - new features and improvements added regularly

# SPECIFICATIONS:

## Comfort Plus Control Unit
### Type 29101



**The control unit** provides visual and acoustic call signaling within the system and indicates nursing personnel presence in patient rooms. It manages all calls and can be linked with other units (across wards) to display calls from multiple locations. Featuring a USB interface and on board event logging (up to 25,000 events), it ensures reliable record keeping.

| | |
|---|---|
| Dimensions (with frame) [mm]: | 261 x 117 x 40 |
| Bus load [mA]: | 100 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non condensing) [%]: | 30 - 75 |
| Binary input (NO/NC contacts): | yes |
| Binary output (max. AC voltage) [V]: | 230 |
| Max. switching current [A]: | 1 |

## Power Supply-Controller
### Type 29296



**The power supply-controller** of the nurse call system is used to present calls originating from the call buttons installed in individual rooms. The call presentation is accompanied by an additional sound signal.

**The power supply-controller** also functions as a bus controller, providing power to the other installed system components. When the monitoring function is activated, the power supply-controller can detect system failures – lost system components. The power supply-controller has one bus connection with a load capacity of 340 mA.

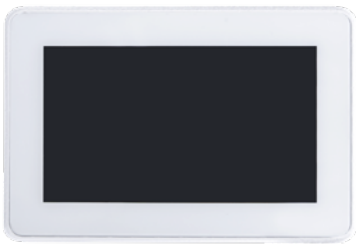| | |
|---|---|
| Dimensions [mm]: | 234 x 92 x 53 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| AC power supply [V] / max. load [A]: | 230 / 0.2 |
| Binary output: | yes |
| Max. AC/DC voltage [V]: | 24 |
| Max. switching current [A]: | 0.5 |
| Installation (installation hole / raster)  [mm]: | 3 x 60 |

## Corridor Display
### Type 39271 (Single-sided)



**The corridor display** shows calls and presence confirmations sent by the control unit in parallel. It also features an audible signal. When no event has occurred in the system, the display can show the current time.

| | |
|---|---|
| Dimensions (with frame) [mm]: | 640 x 155 |
| Bus load [mA]: | 30 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| AC power supply [V]: | 230 |

## Room Display
### Type 39404

**The call-cancel button with room display** is used to present calls originating from other rooms. It displays calls from local rooms as well as calls from other connected panels. The call presentation is accompanied by an audible alert.

**"Doctor" Mode**
In this mode, only the highest-priority calls (doctor calls/alarms) are displayed. The module operating in this mode does not function as a call-cancel button.

**"Duty Station" Mode**
In this mode, all calls are displayed. The module operating in this mode does not function as a call-cancel button.

**"Doc-cancel" Mode**
In this mode, an additional doctor call button is displayed, which becomes active only after confirming the presence in the room (as with module 39151).

| | |
|---|---|
| Dimensions (with frame) [mm]: | 125 x 84 |
| Bus load [mA]: | 15 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Nurse Call Indicator Light
### Type 39120

**The nurse call indicator light** is used to signal a call, alarm, or presence (of a nurse) in one or multiple rooms (group light). The signaling is done using three colors and an audible alert.

**"Duty Station" Mode**
The indicator light can be configured to operate as a duty station light. In this mode, calls from all rooms are signaled. The audible alert is always active, regardless of the day/night mode.

**"Doctor" Mode**
The indicator light can be configured to operate as a doctor call light. In this mode, only doctor calls from all rooms are signaled. The audible alert remains active at all times, regardless of the day/night mode.

| | |
|---|---|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 20 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non condensing) [%]: | 30 - 75 |
| Flush mount box depth [mm]: | 60 |

## Doctor Call Button
### Type 39151

Allows a doctor to be called from the room where it is installed – an emergency call (highest priority). The call must be confirmed by presence detection (via button 39160 or 39340).

| | |
|---|---|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 2 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Call Button
### Type 39140

Enables personnel to be called from the room where it is installed – a standard call. Once presence is confirmed (via button 39160 or 39340), pressing the button again sends a higher-priority call – an assistance call.

| | |
|---|---|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 2 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Reset Button
### Type 39340

This button allows for the confirmation of personnel presence and/or the clearing of calls – standard calls, assistance calls, and alarms.

| | |
|---|---|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 10 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Call-Cancel Button
### Type 39160

This button allows for the calling or confirmation of personnel presence (or canceling an alarm) in the room where it is installed – a standard call. Once presence is confirmed (via button 39160 or 39340), pressing the button again sends a higher-priority call – an assistance call. It is most commonly installed near the entrance to the room.

| | |
|---|---|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 10 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Call Pendant Socket
### Type 39214

The socket is used to connect the call pendant 29201.

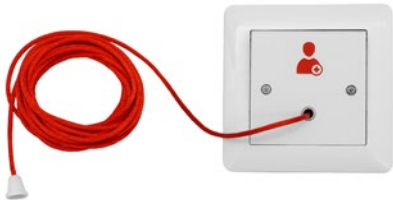| | |
|---|---|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 5 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Call Pendant Socket
### Type 39464

The socket is used to connect the call pendant 29501. It includes an additional call button and the ability to control lighting.

| | |
|---|---:|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 10 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Pull Cord Call Button
### Type 39184

This button allows personnel to be called from the room where it is installed – a standard call. Once presence is confirmed (via button 39160 or 39340), pressing the button again sends a higher-priority call – an assistance call. It is most commonly installed in toilets and/or near showers.

| | |
|---|---:|
| Dimensions (with frame) [mm]: | 80 x 80 |
| Bus load [mA]: | 2 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Flush mount box diameter [mm]: | 60 |

## Standard Call Pendant
### Type 29201

**The call pendant** is equipped with a 6.35 mm JACK plug and is used to initiate a call when connected to the socket 39214. It features a "standby" light, which increases in intensity once a call is initiated. Additionally, the pendant is embossed with the Braille alphabet "SOS" above the call button.

| | |
|---|---:|
| Dimensions [mm]: | 73 x 46 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |

## Comfort Call Pendant
### Type 29501

**The call pendant** is equipped with a 6.35 mm JACK plug and is used to initiate a call when connected to socket 39464. It features a "standby" light, which increases in intensity once a call is initiated. Additionally, it has two buttons for controlling lighting and is embossed with the Braille alphabet "SOS" above the call button. A mounting bracket is available for separate purchase.

| | |
|---|---:|
| Dimensions [mm]: | 73 x 46 |
| Operating temperature [°C]: | 10 to +50 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |

## Bus Controller
### Type 29291



**The bus controller** is the power and communication module of the nurse call system. It provides power and organizes the communication flow on the system's bus. The controller is designed to work with the modules of the nurse call system. It has four bus connections with a load capacity of 150 mA each, and one communication connection for linking with other controllers in the system to increase the overall load capacity.

| | |
|---|---|
| Dimensions (with power supply) [mm]: | 6 modules |
| Operating temperature [°C]: | 10 to +70 |
| Atmospheric pressure [hPa]: | 700 - 1060 |
| Relative humidity (non-condensing) [%]: | 30 - 75 |
| Installation method: | in a distribution panel, TH35 rail |

# We offer the system
# in your preferred language!

# How to order easily:

European markets

**Kamilla Modzelewska**
Vice President

km@meden.com.pl  •  +48 602 668 002

**Renata Bryła**
International Sales Manager

rbryla@meden.com.pl  •  +48 573 893 795

CIS region, Ukraine, Georgia

**Oksana Ardan**
Key Account Specialist

oardan@meden.com.pl  •  +48 607 566 302

North/South America, Africa, Ireland, GB

**Tomasz Górecki**
Key Account Manager

tgorecki@meden.com.pl  •  +48 601 646 866

Australia, Asia and Middle East

**Mariusz Rubik**
Key Account Specialist & Training Consultant

mrubik@meden.com.pl  •  +48 690 266 543