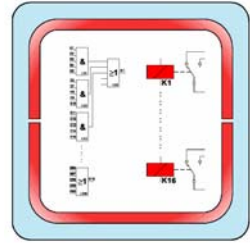


# IMR 6000/00

## System frame



- Component of the MMS 6000 Machine Monitoring System
- Slots for adaptation of signal processing periphery  
**Monitors:** 10xMMS 6xxx  
\*(selection: regarding assembly and functionality)  
**Logic card:** e.g. MMS 6740,  
**Interface card:** e.g. MMS 6824
- External connection to the periphery via 25-pole Sub-D connectors
- System frame configuration via hardware bridges, solder bridges and configuration of the Dip- switches.
- buildup of RS485 buslines for integration of all monitors
- generation of a master-key signal by a key- monitor at the 1st monitor slot
- change over between closed-circuit and open-circuit mode via solder bridges

### Applications:

The system frame **IMR 6000/00** is developed for general use in industrial applications where a reliable adaptation between electronic devices and plant devices is necessary.

With the system frame **IMR 6000/00**, an appropriate adaptation of the signal-processing periphery like:

- alarm signals
- error signals
- connection results
- external signals

can be expensed.

The system frame **IMR 6000/00** offers substantial saving potential with the wiring complexity.

### Assembly and functionality:

The system frame **IMR 6000/00** is a component of the epro **MMS 6000** machine monitoring system. This consists of a 19" card frame and comprises the following card slots at the front side:

- 10 monitor slots for **MMS 6000** series
- 2 slots for adaptation of one logiccard e.g. **MMS 6740**
- 1 slot for connection of an interface card e.g. **MMS 6830**, **MMS 6831**, **MMS 6824** or **MMS 6825**

The following Monitors are supported of the system frame **IMR 6000/00** with their basic functions: \*

**MMS 6110, MMS 6120,  
MMS 6125, MMS 6140,  
MMS 6210, MMS 6220,  
MMS 6310, MMS 6312,  
MMS 6410.**

The 1st monitor slot at the system frame offers the possibility to imply a key monitor and to relay these key signal to the other monitors.

The rear of the system frame serves the purpose of:

- signal supply

- signal output for further processing
- parameterization of the system frame

The connection to the external periphery on the rear of the system frame is made by 25- pole SubD plugs.

By integration of a corresponding interface card, if necessary, it's possible to build up several RS485 buslines within one system frame. That's the way to connect the monitors to one communication bus.

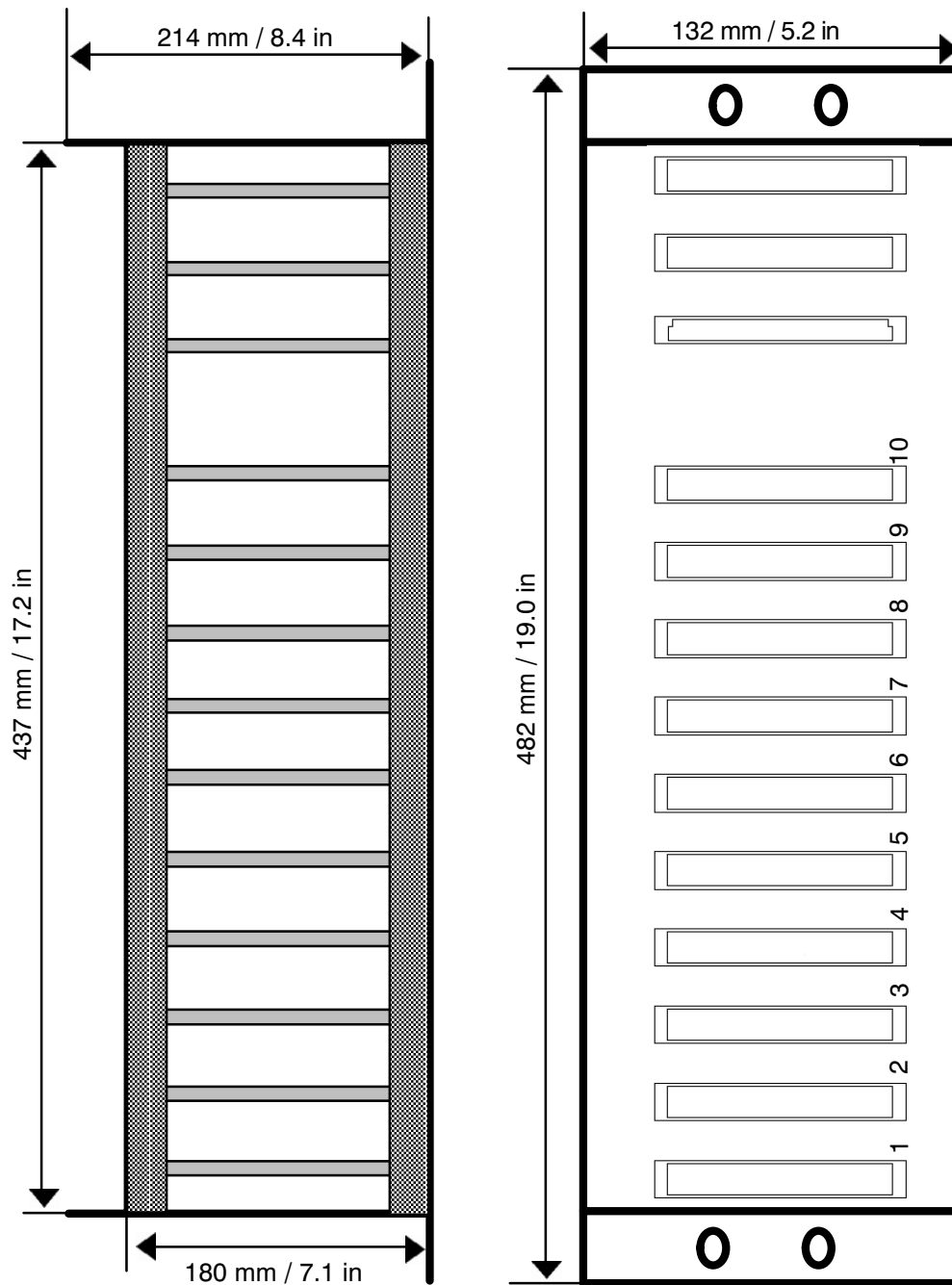
## Technical Data:

<p><b>voltage supply:</b></p> <p>two redundant, diode decoupled Inputs, nominal +24V with common ground</p> <p>voltage Input: +24V UN+, +24V UB+</p> <p>common ground: 0V U-, GND</p> <p>permissible voltage range: +18V ... +31.2V</p> <p>typical power consumption: approx. 100 W</p> <p>max. permissible fuse of the input current: 8A</p> <p>internally generated and galvanically separated voltage: +24V</p> <p>max. power rating of the internal generated, galvanically separated voltage: 2W</p>	<p>voltage supply inputs: KFT according DIN 40 040</p> <p><b>mechanical design:</b></p> <p>see drawing</p> <p>rear element 1 LED yellow for internal voltage OK (+24V)</p> <p>net weight: approx. 2120g / 74.78oz gross weight: approx. 2680g / 94.53oz</p> <p><b>accessories:</b></p> <p>connection cable between system frame and screw connection (e.g. Phoenix-terminal block) halogen free, regarding the specifications of the interference immunity:</p>	<p>e.g. cable LiH(St)CH PiMF 12 x 2 x 0,22mm / 12 x 2 x 8.66mil</p> <p>Screw terminal block for contacting the external periphery (Phoenix clamp block) 25-pole SubD</p> <p>Connection adapter for contacting the signals at the rear of the system frame: 25-pole SubD plug, male to Phoenix screw contacts</p> <p><u>The technical data specifications of monitors, logiccards and interface-cards please find in the appropriate data sheets.</u></p>
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## Ambient conditions:

<ul style="list-style-type: none"> <li>• <b>application class:</b> KTF according DIN 40 040</li> <li>• <b>ambient temperature:</b> reference temperature: +25°C / 77°F nominal use range : 0 ... +65°C / 32 ... 149°F</li> <li>• <b>temperature range for bearing and transport:</b> -30...+85°C / -22 ... 185°F</li> </ul>	<ul style="list-style-type: none"> <li>• <b>allowed relative humidity:</b> 5...95%, not condensing</li> <li>• <b>permissible vibration:</b> regarding IEC 68-2, Part 29</li> <li>• <b>vibration range:</b> Peak value of acceleration 98 m/s<sup>2</sup> / 3858.3 in/s<sup>2</sup></li> <li>• <b>oscillating acceleration:</b> nominal shock duration 16ms</li> </ul>	<ul style="list-style-type: none"> <li>• <b>permissible shock load:</b> regarding IEC 68-2, part 29 peak value of the acceleration: 98 m/s<sup>2</sup> / 3858.3 in/s<sup>2</sup> nominal impact load: 16 ms</li> <li>• <b>frame shock duration:</b> IP 00, open design regarding DIN 40 050</li> <li>• <b>EMC resistance:</b> regarding EN50 081-1 / EN50 082-2</li> </ul>
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Dimensions:



## Configuration:

For stand-alone operations of the system frame **IMR 6000/00** no software configuration is necessary.

The parametrisation of the system frame must be realized in terms of hardware via bridges, solder bridges and Dip switches on the rear of the system frame.

- The change over between open circuit and closed circuit mode of the danger and alert alarms takes place for each monitor by solder bridges.
- The parametrisation of the key signals and the RS485 bus signals is realized via Dip switches on the rear of the **IMR 6000/00**.

References to the monitor configuration are described in data sheets of the appropriate monitors and the associated parametrisation software.

## Order numbers:

<b>IMR 6000/00</b>	system frame	<b>9100-00093</b>
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### accessories:

<b>MMS6062</b>	system cable, 25-pole Sub-D, 0,5 m	<b>9510-00026</b>
<b>MMS6060</b>	system cable, 25-pole Sub-D, 3 m	<b>9510-00025</b>
<b>MMS6361</b>	connection terminal FLK-D25 SubD (converter- block)	<b>9100-00052</b>
<b>Adapter</b>	25-pole SubD plug- board to screw contacts	<b>9100-00094</b>



**Installation and commissioning of the device may only be made by trained staff.**  
**The manufacturer is not liable for damages, caused by improper use or by operation errors of not authorized persons.**