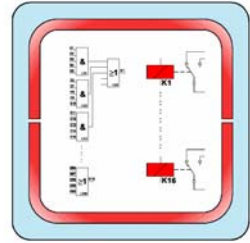# IMR 6000/00
System frame

- **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 signas
– 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.

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Technical Data:

voltage supply:

two redundant, diode decoupled Inputs, nominal +24V with common ground

voltage Input: +24V UN+, +24V UB+

common ground: 0V U−, GND

permissible voltage range:
                    +18V ... +31.2V

typical power consumption:
                    approx. 100 W

max. permissible fuse of the input current: 8A

internally generated and galvanically seperated voltage: +24V

max. power rating of the internal generated, galvanically seperated voltage:
                    2W

voltage supply inputs:
            KFT according DIN 40 040

mechanical design:

see drawing

rear element
  1 LED yellow for
  internal voltage OK (+24V)

net weight: approx. 2120g / 74.78oz
gross weight: approx. 2680g / 94.53oz

accessories:

connection cable between system frame and screw connection
(e.g. Phoenix−terminal block)
  halogen free, regarding the specifi−cations of the interference immunity:

e.g. cable LiH(St)CH PiMF
  12 x 2 x 0,22mm / 12 x 2 x 8.66mil

Screw terminal block for contacting the external periphery (Phoenix clamp block) 25−pole SubD

Connection adapter for contacting the signals at the rear of the system frame:
  25−pole SubD plug, male to Phoenix screw contacts

The technical data specifications of monitors, logiccards and interface-cards please find in the appropriate data sheets.

Ambient conditions:

- **application class:**

    KTF according DIN 40 040

- **ambient temperature:**

    reference temperature:
                    +25°C / 77°F
    nominal use range :
            0 ... +65°C / 32 ... 149°F

- **temperature range for bearing and transport:**

        −30...+85°C / −22 ... 185°F

- **allowed relative humidity:**

        5...95%, not condensing

- **permissible vibration:**

        regarding IEC 68−2, Part 29

- **vibration range:**

    Peak value of acceleration
            98 m/s^2 / 3858.3 in/s^2

- **oscillating acceleration:**

        nominal shock duration 16ms

- **permissible shock load:**

    regarding IEC 68−2, part 29

    peak value of the acceleration:
            98 m/s^2 / 3858.3 in/s^2

    nominal impact load: 16 ms

- **frame shock duration:**

    IP 00, open design regarding DIN 40 050

- **EMC resistance:**

    regarding EN50 081−1 /EN50 082−2

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