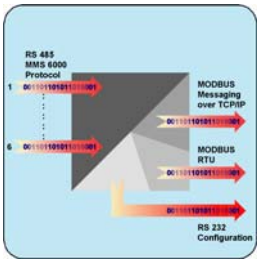
MMS 6824

Interfacecard 6 x RS 485 to MODBUS RTU and MODBUS over TCP/IP



- **6 Inputs RS 485 epro – protocol**
- **Data conversion to:**

  MODBUS RTU

  MODBUS via Ethernet TCP/IP
- **Output data are provided in parallel at the two output bus systems**
- **transmission of characteristical values, module and alarm limit states as well as further parameters incl. the time functions (TCP/IP)**
- **19” card, Euro format, 6 TE**
- **Frame interface, configuration of the connected modules via the RS 232 front socket**
- **Redundant power supply**
- **Up to 31 MMS 6000 modules per MMS 6824**

Application:

The **MMS6824** Interface card is a component of the MMS 6000 machine monitoring system.

At today’s supervision of machines the transmission of measured data to subsequent visualization– and analysis tools is getting more and more important.

The **MMS6824R** interface card provides these data.

Design and Functionality:

The interface card **MMS6824** enquires continuously the data of the connected MMS 6000 monitors via the system’s RS485 bus.
The received data is converted within the Interface card to the MODBUS RTU protocol and simultaneously prepared for the transfer MODBUS via Ethernet TCP / IP.
Via Modbus RTU the respective characteristics, as well as the limits and the module states get transferred.

With MODBUS over TCP/IP characteristical values, limit values, module states as well as time functions get transferred.
These data are continuously available for the connected bus systems. They may be archived and visualized in subsequent systems.
The **MMS6824** interface card, as well as all connected MMS 6000 monitors can be configured via the RS 232 interface at the module front.

The RS 485 bus and the MODBUS RTU are connected to the 48 pole connection strip at the rear of the card.
The TCP/IP network connector is placed at the front of the card. The TCP/IP connection is made with standard network cables and connectors of type RJ 45.
The configuration can be done via the configuration software MMS 6910 which is part of the software package ”MMS Para Kit”.

Technical data

Data input (six RS 485 lines):
via 48-pole blade-connector strip at the rear
RS 485 epro protocol
alternatively 38.4 or 57.6 kBaud

Data output:

MODBUS RTU:
via 48-pole blade-connector strip at the rear, alternatively 9.6 or 19.2 kBaud

MODBUS via ETHERNET TCP/IP:
via RJ 45 socket at the back with standard- network cables

Transmission standard:
ETHERNET 10 Base T

Supply voltage:
18....24....31.2V dc redundant supply, according to I
EC 654-2, class DC4

Power consumption
max. 3 W

Environmental conditions

Protection class:
Module:
IP00 according to DIN 40050
Frontplate:
IP21 according to DIN 40050

Climatic conditions:
according to DIN 40040 class KTF

Operating temperature range:
0....+65°C

Temperature range for storage and transport:
-40....+85°C

Permissible relative humidity:
5....95%, non condensing

Permissible vibration:
according to IEC 68-2, part 6

Vibration amplitude:
0.15 mm in range 10...55 Hz

Vibration acceleration:
16.6 m/s^2 in range 55...150Hz

Permissible shock:
according to IEC 68-2, part 29
peak value of acceleration:
98 m/s2

nominal shock duration:
16 ms

EMC resistance:
according to EN50081-1 / EN50082-2

Dimensions and Weight:
Euro- card format according to DIN 41194, (100 x 160 mm)

modulewidth:	20,0 mm (4 TE)
moduleheight:	128 mm (3 HE)
lenght:	160,0 mm
netweight:	approx. 250 g
grossweight:	approx. 450 g

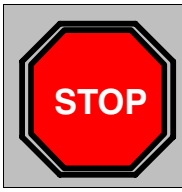
Frontview

Trasferred data:

- Characteristical values
- Conditions of the limit- outputs
- Module state
- Time functions
- additional parameters

Ordernumber:

MMS 6824R	Interface card 6x RS485 to MODBUS RTU and TCP/IP	**9100-00076**
MMS Para Kit	Configuration- kit	**9510-00027**



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

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