

Module Carrier

MSR 111



The measuring system is used to record analog and digital measurement values. The connection to the C-IPC is made over the VARAN bus directly to the module carrier. The module carrier connects the 8 modules with an LVDS bus (one LVDS connection per module). Up to 8 modules can be operated per module carrier. If the C-IPC must be mounted to the carrier, the first 3 slots must be free.

To connect the VARAN and power plugs on the same plane as the Lemo-plug, an interface module is available. A fan is installed to dissipate the power loss that is generated. The fan is mounted on a circuit board and can therefore be exchanged.

Technical Data

Performance data

Interface connections	8 x LVDS bus (with distributor function) 1 x interface module (for VARAN-In, VARAN-Out and supply) (maximum length VARAN: 100 m) 1 x Fan module
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Electrical requirements

Supply voltage	18 – 30 V DC
Current consumption of voltage supply	The current consumption is dependent on the connected loads; max. 9 A.

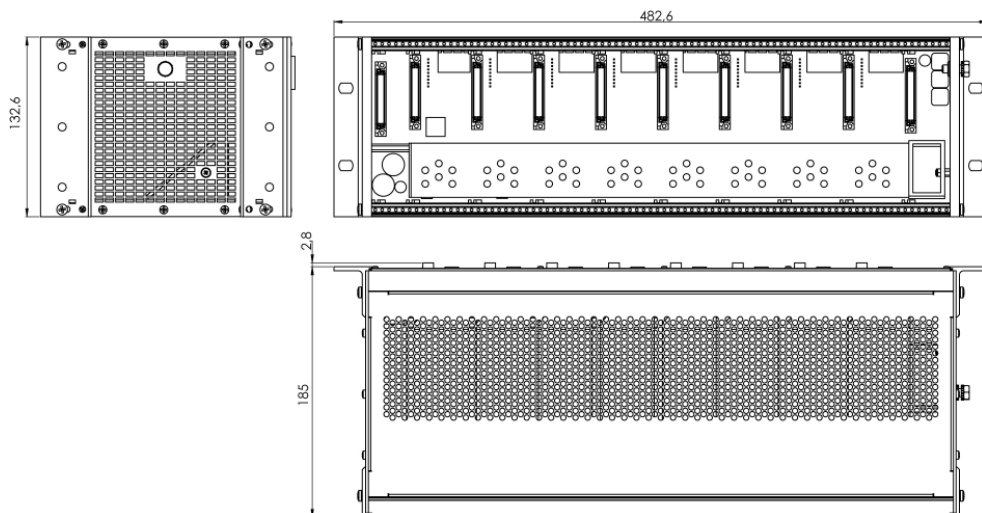
Miscellaneous

Article number	18-001-111
Hardware version	1.x

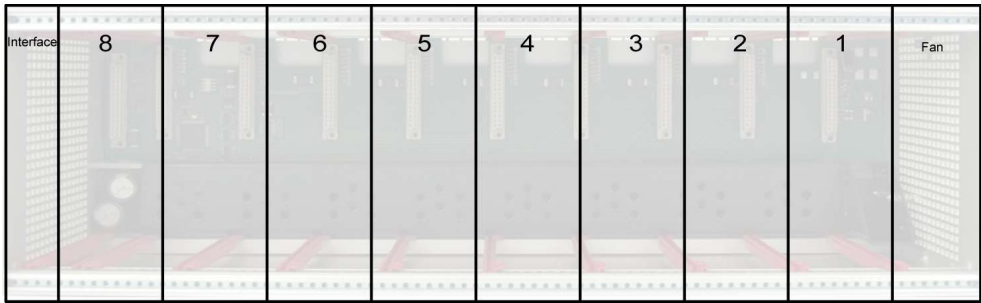
Environmental conditions

Storage temperature	-30 – +85 °C	
Operating temperature	0 – +60 °C	
Humidity	0 - 95 %, uncondensed	
EMV stability	According to EN 61000-6-2:2001 (industrial area)	
Shock resistance	EN 60068-2-27	150 m/s ²
Protection Type	EN 60529	IP 20

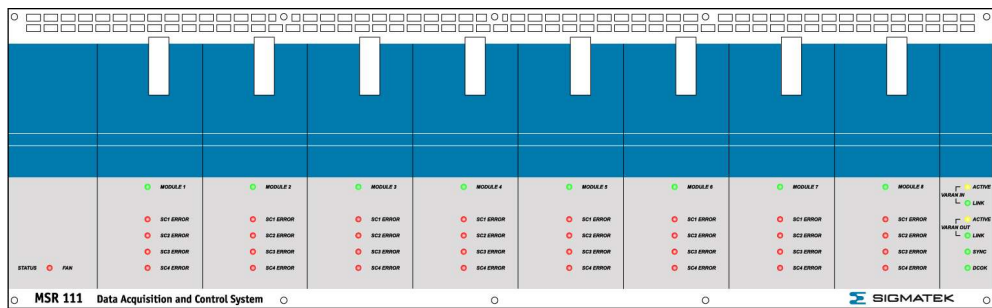
Mechanical Dimensions



Slots



Status Displays



Interface module

LED	LED color	Definition
VARAN IN ACTIVE	Yellow	Lights when data is exchanged over the VARAN bus
VARAN IN LINK	Green	Lights when the connection between the two PHYs is established
VARAN OUT ACTIVE	Yellow	Lights when data is exchanged over the VARAN bus
VARAN OUT LINK	Green	Lights when the connection between the two PHYs is established
SYNC	Green	DATA (conversion active)
DCOK	Green	DC OK (module in operation)

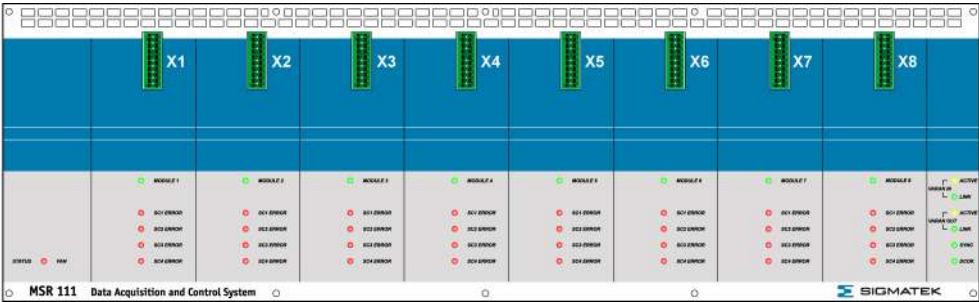
Fan module

LED	LED color	Definition
STATUS FAN	RED	Fan error

Per module

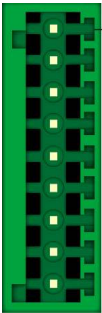
LED	LED color	Definition
MODULE 1 - 8	Green	Module detection module 1 – 8
SC1 ERROR	Red	Signal Conditioner Error
SC2 ERROR	Red	Signal Conditioner Error
SC3 ERROR	Red	Signal Conditioner Error
SC4 ERROR	Red	Signal Conditioner Error

Connector Layout



X1 - X8: Diagnostic connector Front

(X1 – Module 1, X2 – Module 2, ... , X8 – Module 8)



Pin	Assignment
1	Module 1, Channel 1
2	Module 1, Channel 2
3	Module 2, Channel 1
4	Module 2, Channel 2
5	Module 3, Channel 1
6	Module 3, Channel 2
7	Module 4, Channel 1
8	Module 4, Channel 2
9	AGND

Useable connector

X1 – X8: Phoenix FK-MC 0,5/9-ST-2,5

