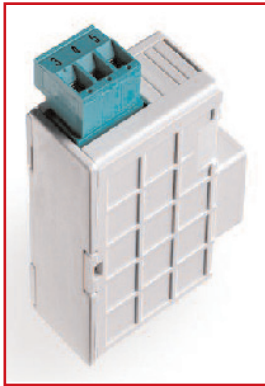


■ DATASHEET:
INTERFACE MEMORY + RS485 COMMUNICATION FOR NA 96HD/HD+



■ SCHRACK INFO

- Module MGF3900S combined with meters of NA 96HD/HD+ series makes available, by RS485 communication, all the data relevant to carried out measurement as well as the configuration parameters.
- Thanks to the internal storage, it is possible to store the energy counts of the main measured parameters.
- By the RS485 communication it is possible to query the device having access to the stored data.

■ MEMORY

The measurements are saved in a sliding-window memory (the oldest data are deleted by the newest).

The memory allows to read in the former data with a time depth which may vary according to the saved data quantity as well as the saving interval.

Table 1 reports the saved data quantity based on the chosen type.

Table 2 shows the data reading depth (expressed in hours) based on the selected saving type and the chosen saving

interval.

Example: data type 0 interval 2 minutes

It will be possible to have access to the saved data up to the 960 previous hours.

The energy measurements, regardless of the type of data and the selected time interval, are saved every 15 minutes.

The memory size allows to read in the energy data regarding a whole year.

Gruppe 1 MESSUNG	Group 1 MEASURE	gespeicherte Daten / Saved data			
		0	1	2	3
Phasenspannung	Phase voltage	•	•		•
verkettete Spannung	Linked voltage	•		•	
Wirkleistung, Blindleistung (Phase)	Phase active and reactive power	•	•		
Oberwellengehalt Strom und Spannung (Phase)	Phase current and voltage harmonic distortion	•			
Phasenstrom und Neutralleiterstrom	Neutral and phase current	•	•	•	•
Leistung (gesamt) Wirk, Blind, Scheinleistung	Apparent - reactive - active 3-phase power	•	•	•	•
Leistungsfaktor (gesamt)	3-phase power factor	•	•	•	•
Leistungsfaktor (je Phase)	Phase power factor	•	•		
Alarmstatus	State of alarms	•	•	•	•
Frequenz	Frequency	•	•	•	•
Gruppe 2 ENERGIE - LEISTUNG MITTELWERT	Group 2 AVERAGE POWER - ENERGY	0	1	2	3
Wirkenergie positiv und negativ	Negative and positive active energy	•	•	•	•
Blindenergie positiv und negativ	Negative and positive reactive energy	•	•	•	•
Leistungsmittelwert und max. Leistungsmittelwert	Average power and peak average power	•	•	•	•

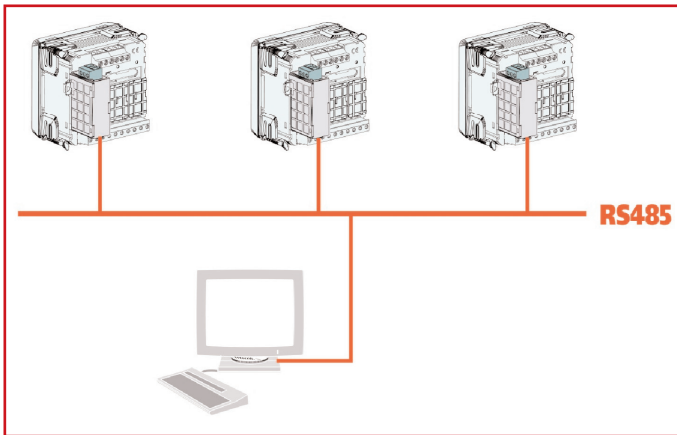
TAB.2

Datentyp / Data type	ZEITINTERVALL • TIME INTERVAL							
	2s	5s	10s	30s	60s	2min	5min	10min
0	15	40	80	240	480	960	2400	4800
1								
2	25	60	120	360	720	1440	2880	5760
3								

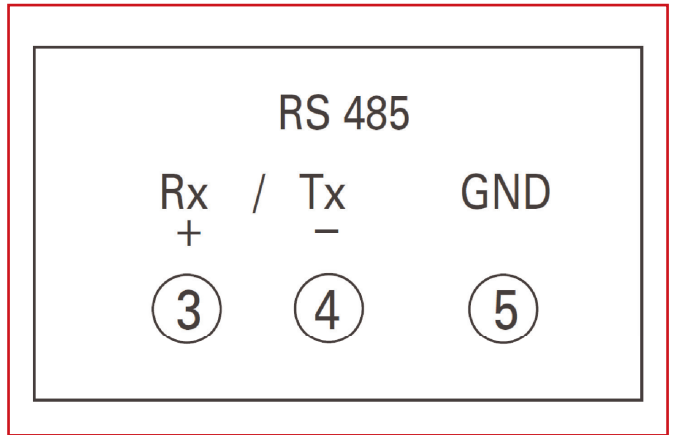
TECHNICAL DATA

PROGRAMMABLE PARAMETERS - MEMORY	
Clock:	hour, minutes, seconds
Date:	day, month, year
Daylight saving time:	starting date and time, ending date and time
Time interval between the data backup:	2-5-10-30-60 seconds – 2-5-10 minutes
Saved data:	type 0-1-2-3 see TAB.1
Reset saved data	
RS485 COMMUNICATION	
Galvanically insulated from input and aux. supply (NA 96HD/HD+)	
Standard:	RS485 - 3 Leiter
Transmission:	serial asynchronous
Protocol:	compatible JBUS/MODBUS
Bit number:	8
Stop bit:	1
Required response time to request:	" 200ms
Meters that can be connected on the bus:	32 (up to 255 with RS485 repeater)
Highest distance from supervisor:	1200m
PROGRAMMABLE PARAMETERS - RS485	
Address:	1...255
Baud rate:	4.800 - 9.600 - 19.200 - 38.4001 bit/s 138.400 : only for NA 96HD / HD+
Parity bit:	none - even - odd
AUXILIARY SUPPLY	
Value referred to combination multifunction meters NA 96HD/HD+ and MGF3900S interface	
Rated burden:	" 5VA
INSULATION (EN61010)	
Value referred to combination multifunction meters NA 96HD/HD+ and MGF3900SIF96012 interface	
A.C. voltage test	2 kV r.m.s. value 50Hz/1min
Considered circuits:	measure, aux. supply, RS485 communication
HOUSING	
Housing:	modulewith connector for connection NA 96HD/HD+ meter
Max. depth:	81mm (NA 96HD/HD+ and module)
Connections:	screw terminals
Terminals range:	rigid cable max. 4,5mm ² , flexible cable max. 2,4mm ²
Housing material:	self-extinguishing polycarbonate
Weight:	30 grams

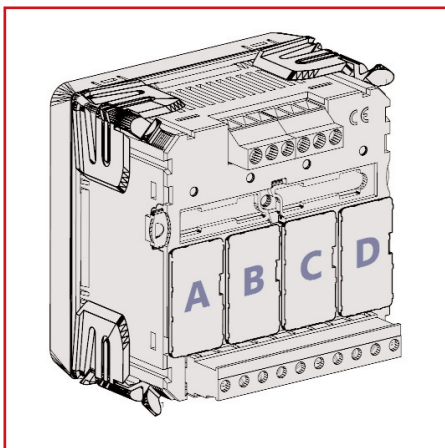
■ CIRCUIT DIAGRAM



■ WIRING



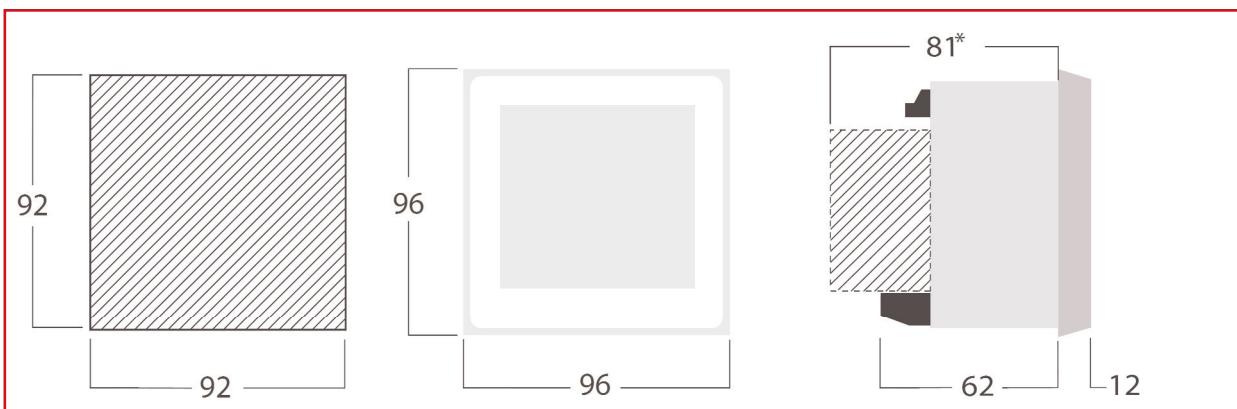
■ POSITION



Beschreibung DESCRIPTION	max. Anzahl N. MAX.	Steckplatz POSITION				Firmware' FIRMWARE'
		A	B	C	D	
Speicher + Kommunikation RS485 Memory + RS485 communication	1	•				V 2.08 ab / from

¹FIRMWARE VERSION: on the table it is shown the firmware version of the meter which is necessary to support the function of the extra module.

■ DIMENSIONS



DESCRIPTION	EAN	ORDER NO.
Plug-in Module energy value storage - RS485 interface f.NA96	9004840682434	MGF3900S