

Communication base module CM12



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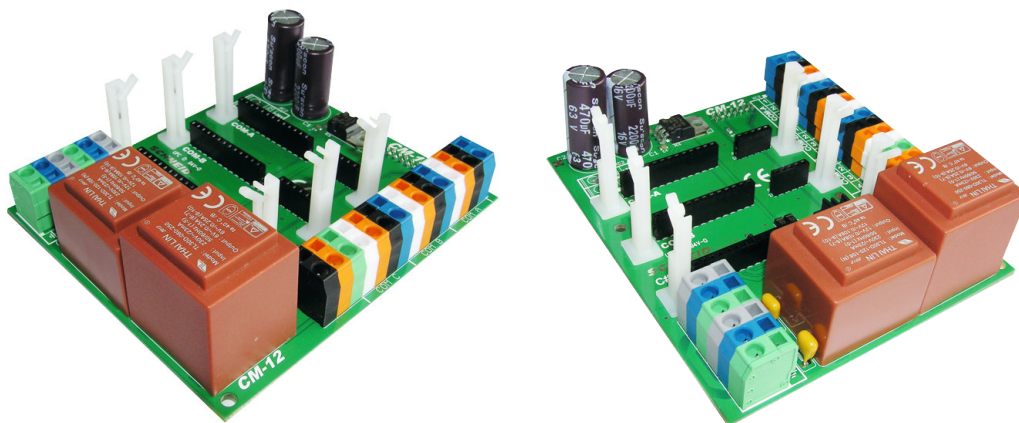
Products, data sheets, documentation, MR12-SCHEMA-calculator: www.schneid.at

SCHNEID Communication base module CM12

for SCHNEID module controller MR08*, MR12 (*after 2013)

Order number: 130.17368

Order code: Kommunikationsbasismodul CM12



Overview:

With this communication board, the basic module controller can be equipped with up to three bus interfaces:

1. Standard bus for controller networking and plant visualization via SCHNEID-WinMiocs or SinVIS
2. Bus interface for consumption data acquisition (e.g., counters)
3. Internal controller bus for control networking (SubCOM)

Depending on the intended use, a corresponding bus module can be fitted for each of the three bus interfaces. The following bus modules are available:

- RS232 Bus module	- TCP/IP Ethernet Bus module
- RS485 Bus module	- BT (Bluetooth) module
- RS422 Bus module	- RF (RadioFrequency) Radio module
- MBUS-Master Bus module	- GPRS module
- MBUS-Slave Bus module	- MP-Bus module
- USB Bus module	- PGW-Bacnet module

Examples of networking:

COM-A: All data of the controller and the heat meter are transmitted via the special interface SCHNEID-FSS to the control computer in the boiler house (see WINMIOCS and FW MANAGEMENT).

COM-B: Readout of measurement data from heat meters, electricity meters and other external devices via M-Bus interface (M-Bus protocol according to CEN TC176 WG4 and IEC1107).

Data recorded using the heat meter as an example: amount of heat, flow rate, flow, return temperature, spreading, power, flow, etc.

COM-C: Via an internal data bus, various SCHNEID controllers can be linked with each other on the control side. Corresponding setpoints as well as the centrally measured outside temperature are exchanged among the control units in order to enable optimized control.

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Terminal diagram:

Supply connections:

L	Supply 230VAC
N	Supply 230VAC
PE	
L	Supply 230VAC
N	Supply 230VAC
PE	
+36V	Output terminal 36VDC (intended for replenishment)
0V	GND (intended for replenishment)
+5V	Output terminal 5VDC
0V	GND

Interface ports:

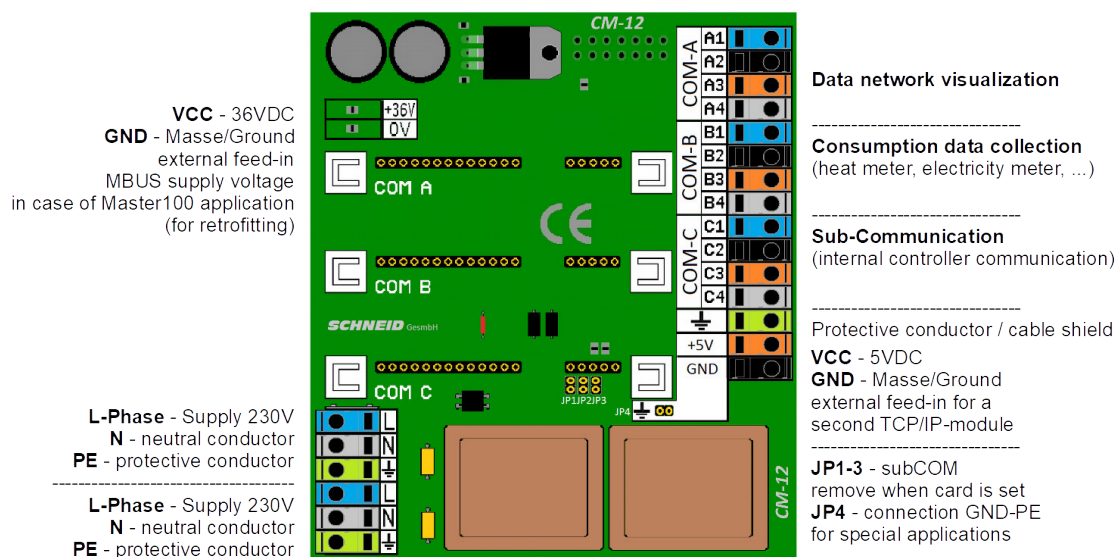
Controller Connector: 14-pin

There are 3 pc slots for communication plug-in cards on the module. The slots COM-A, COM-B and COM-C are connected to terminals.

Links:

COM-A	to terminals A1-A4
COM-B	to terminals B1-B4
COM-C	to terminals C1-C4

Depending on the interface card, the terminals 1-3 have different assignments. These are described in the individual maps.



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Variants:

SCHNEID Communication base module CM12 for SCHNEID module controller MR08*, MR12 (*after 2013)

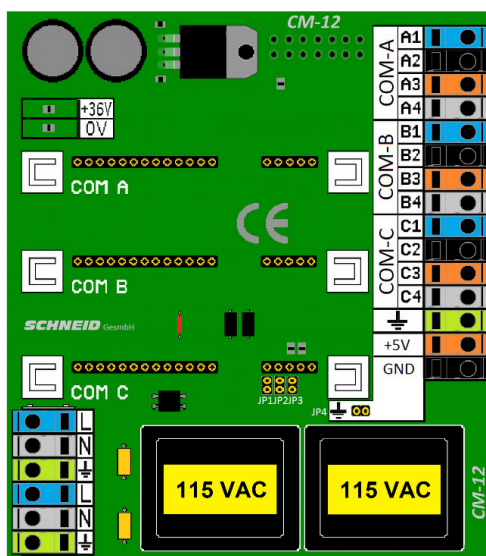
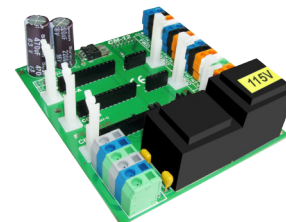
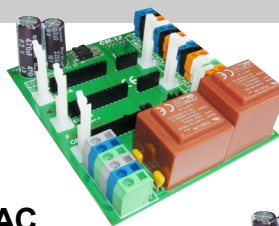
Order number: 130.17368

Order code: Kommunikationsbasismodul CM12

SCHNEID Communication base module CM12 115VAC for SCHNEID module controller MR08*, MR12 (*ab 2013)

Order number: 130.17447

Order code: Kommunikationsbasismodul CM12 115VAC



VCC - 36VDC
GND - Masse/Ground external feed-in
MBUS supply voltage in case of Master100 application (for retrofitting)

L-Phase - Supply 115V
N - neutral conductor
PE - protective conductor

L-Phase - Supply 115V
N - neutral conductor
PE - protective conductor

Data network visualization

Consumption data collection (heat meter, electricity meter, ...)

Sub-Communication (internal controller communication)

Protective conductor / cable shield

VCC - 5VDC
GND - Masse/Ground external feed-in for a second TCP/IP-module

JP1-3 - subCOM remove when card is set
JP4 - connection GND-PE for special applications

Possible combinations:

With the production date from 06/2013 and from batch C # 22293, the communication connection on the MR08 module controller is changed from 10 to 14 poles. The MR12 module controller also has a 14-pin communication connection.

<p>CM12 - 14-pin</p> 	<p>MR08 (after 2013) & MR12 - 14-pin</p> 
<p>CM12 - 14-pin</p> 	<p>MR08 (vor 2013) - 10-pin</p> 
<p>! ATTENTION !: NOT POSSIBLE – MR08 (10pins) only with CM06 (10pins)</p>	

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Scope of Delivery:

SCHNEID Communication base module CM12 and connection cable 14 pin (800mm).

Technical specifications:

Intrastat Number	8537.10.91
Country of origin	EU/AT
Height, width, depth (in mm)	115x100x44
Weight (in kg)	0,309 (CM08-115VAC: 0,301)
Protection	IP-20
Ambient temperature	0°C....+40°C
Operating voltage	230VAC ((CM08-115VAC: 115VAC)
Input	max. 5VA
input 5VDC	250mA
Maximum power 36VDC	100mA
maximum power	Fixed wiring terminals
Connectivity technology	Spring terminal
Wire Gauge	max. 2.5mm ²
Mounting	DIN-RAIL TS35
Operating time	Continuous operation
Pollution degree	2
Rated impulse voltage	1kV