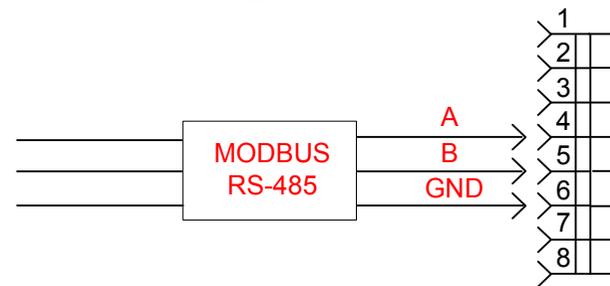


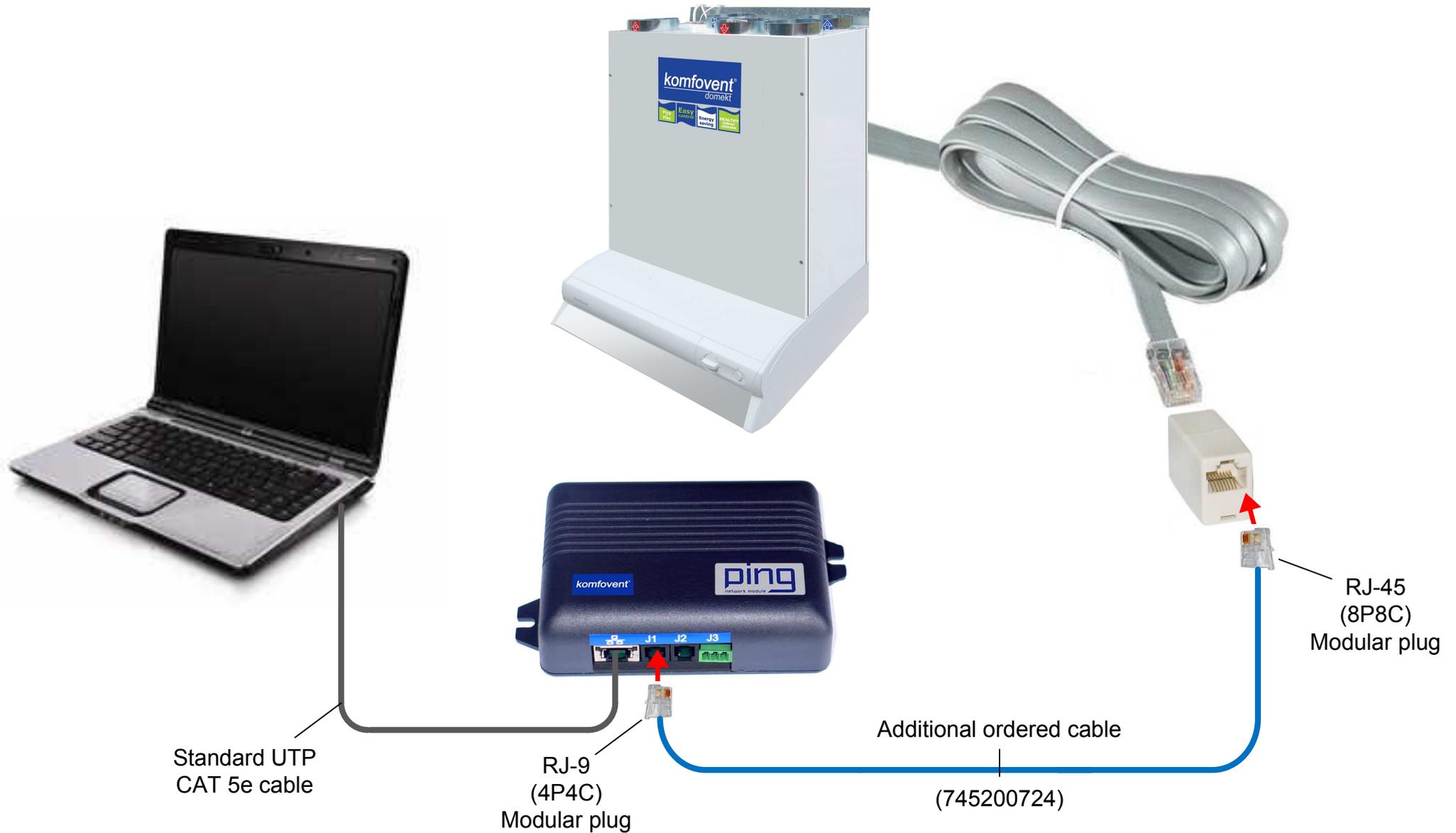
“RS485” connection for DOMEKT units without control panel



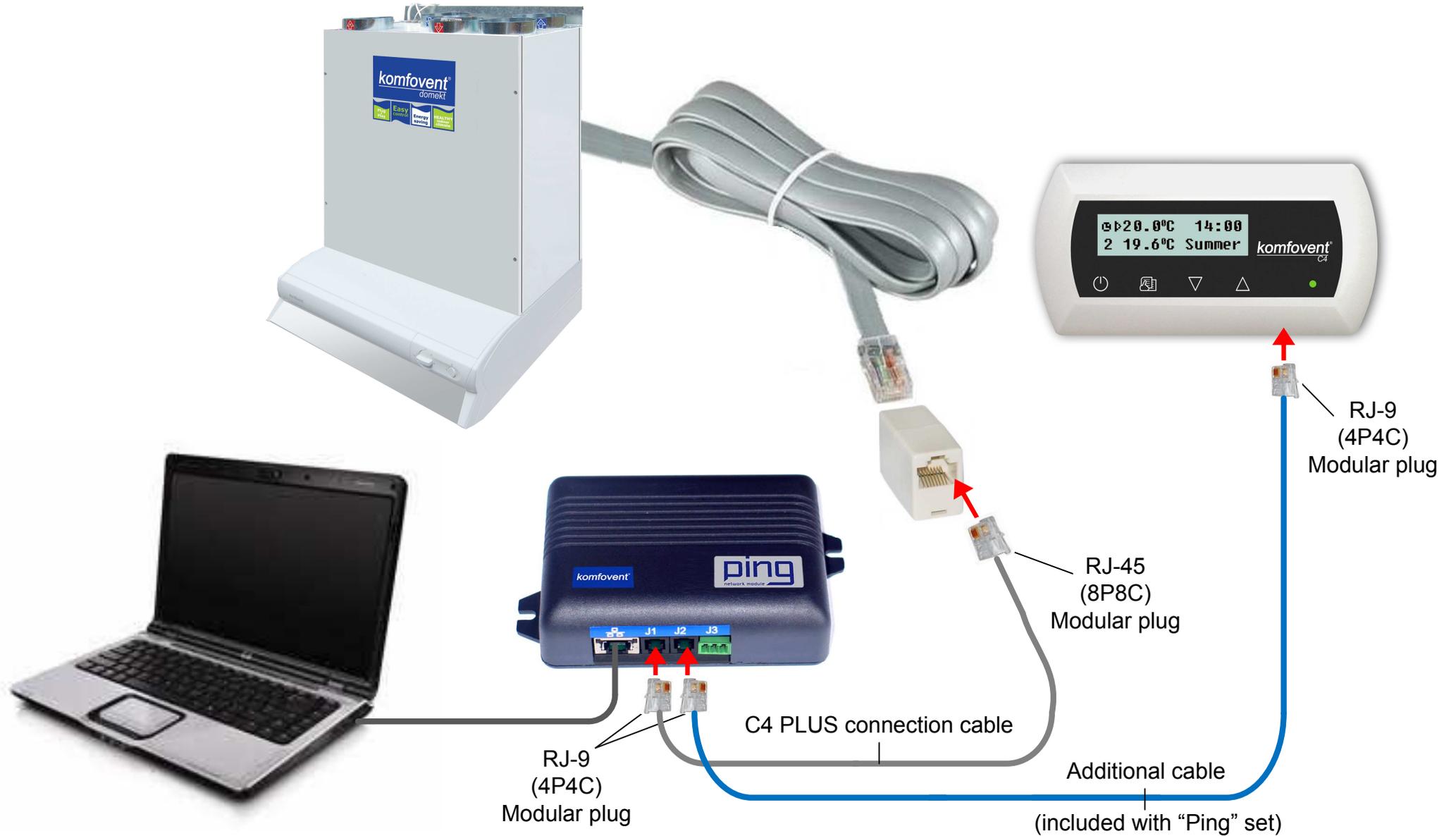
To BMS system



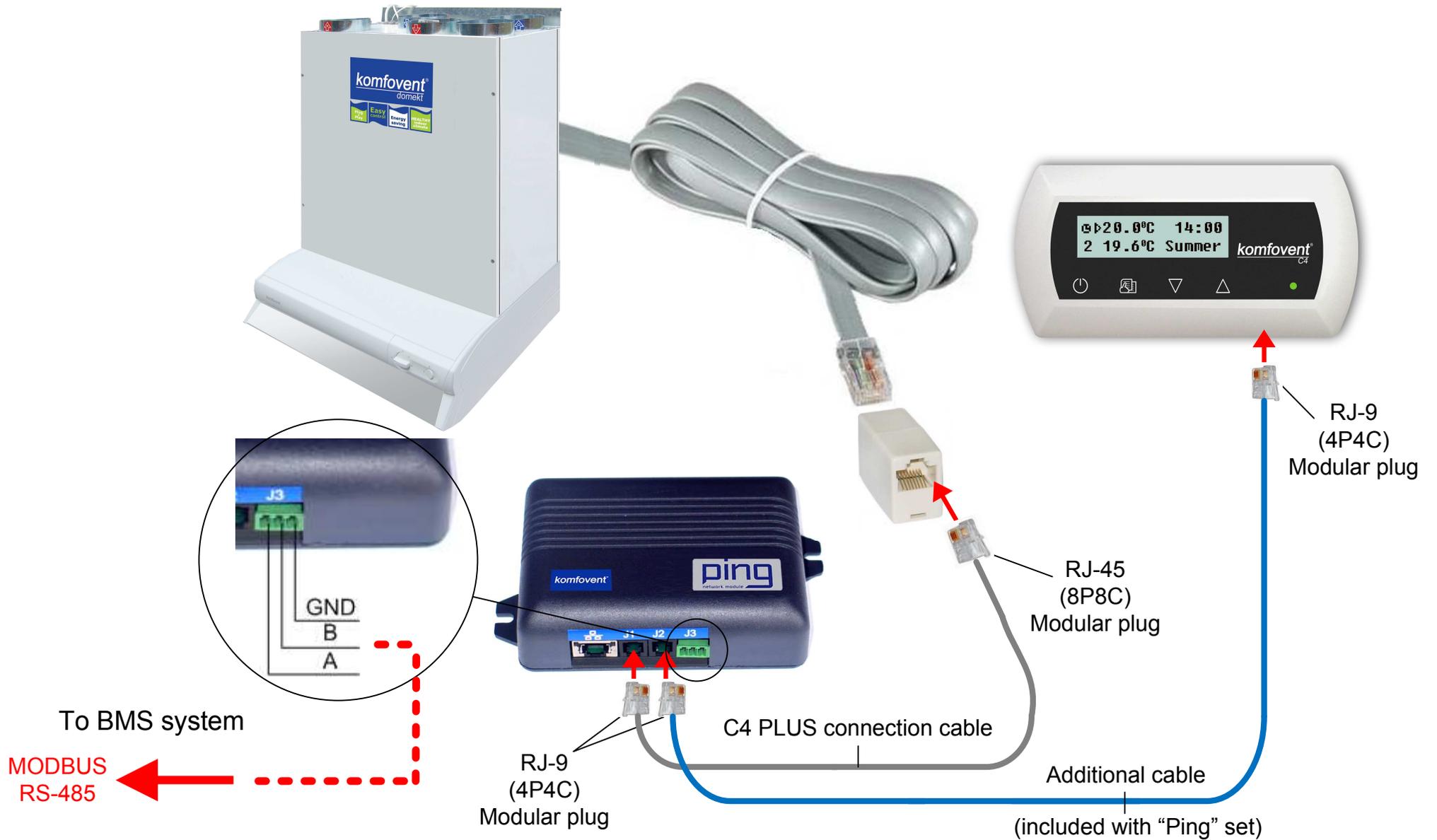
“Ethernet” connection for DOMEKT units without control panel



“Ethernet” connection for DOMEKT units with C4 PLUS

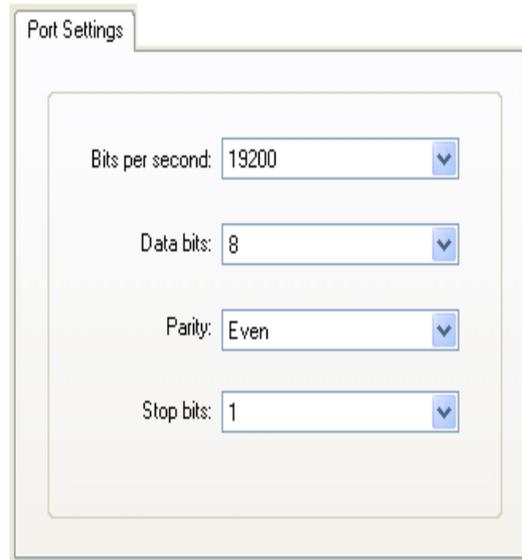


“RS485” connection for DOMEKT units with C4 PLUS



MODBUS CONNECTION PARAMETERS

To read data from controller must be provided serial or TCP/IP connection. For TCP/IP connection should be used 502 port. Serial connection parameters are fixed, detailed information below.



The image shows a 'Port Settings' dialog box with the following parameters:

Parameter	Value
Bits per second	19200
Data bits	8
Parity	Even
Stop bits	1



If distance between AHUs and BMS computer is more than 10 meters, for serial connection the ground wire is required (not two but three wires: A, B, GND).



When the distance between AHUs and BMS is very long, to ensure good connection line compensation resistances are recommended.

Modbus registers of C4 controller

	Register	Description	Data type	Access	Data range/values
General	1000	C4 Start/Stop	integer	R/W	1-Start, 0-Stop
	1001	Season	integer	R/W	1-Winter, 0-Summer
	1002	Time	2x char	R/W	(8:05 => 0x0805)
	1003	Day of the week	integer	R/W	1-Mon,2-Tue,...,7-Sun
	1004	Month-day	2x char	R/W	(9may => 0x0509)
	1005	Year	integer	R/W	
	1006	Modbus address	integer	R/W	1..100
	1007	Alarm status (warnings)	binary	R	14-Service, 13-Heater off, 11-Rotor stop
	1008	Alarm status (stop flags)	binary	R	1 - Supply sensor B1 2 - Heater overheating 3 - Water temp low 4 - Rotor stop 5 - Frost possibility 6 - Air temp high 7 - Air temp low
	1009	Alarm status (stop code)	integer	R	3 - Rotor stop 4 - Heater overheating 9 - Supply sensor B1 19 - Air temp low 20 - Air temp high 27 - Water temp low 28 - Frost possibility
	1010	Recuperator level	integer	R	0..100%
	1011	Electric heater level	integer	R	0..100%
	1012	Water heating level	integer	R	0..100%
1013	Water cooling level	integer	R	0..100%	

Ventilation	1100	Ventilation level (manual)	integer	R/W	1..3
	1101	Ventilation level (current)	integer	R	0..4
	1102	Mode (Auto/Manual)	integer	R/W	0-Manual, 1-Auto
	1103	Intake ventilation intensity level 1 (EC)	integer	R/W	20..100 / 0
	1104	Intake ventilation intensity level 2 (EC/AC)	integer	R/W	20..100 / 0..2
	1105	Intake ventilation intensity level 3 (EC)	integer	R/W	20..100 / 0
	1106	Intake ventilation intensity level 4 (EC)	integer	R/W	20..100 / 0
	1107	Exhaust ventilation intensity level 1 (EC)	integer	R/W	20..100 / 0
	1108	Exhaust ventilation intensity level 2 (EC/AC)	integer	R/W	20..100 / 0..2
	1109	Exhaust ventilation intensity level 3 (EC)	integer	R/W	20..100 / 0
	1110	Exhaust ventilation intensity level 4 (EC)	integer	R/W	20..100 / 0
	1111	"OVR" enable	integer	R/W	1 - "OVR" enabled
	1112	"OVR" time	integer	R/W	1..90
	1113	"OVR" time(current)	integer	R	0..90
	1114	AHU fans status	binary	R	1-Operating, 0-Stopped
	1115	Supply fan level (current)	integer	R	0..100
1116	Exhaust fan level (current)	integer	R	0..100	

Temp.	1200	Supply air temp, C	integer	R	-30..75 (10x C, 25.0C => 250)
	1201	Setpoint temp, C	integer	R/W	0..300 (10x C, 25.0C => 250)
	1202	Temp.correction, C	integer	R/W	-90..+90 (10x C, +5C => 50)
	1203	Temp.correction start time	2x char	R/W	(8:05 => 0x0805)
	1204	Temp.correction stop time	2x char	R/W	(8:05 => 0x0805)
	1205	Water temp, C	integer	R	-10..110 (10x C, 25.0C => 250)

