OPEN PROTOCOL FOR ELECTRICAL NETWORKS

My Open Web Net Who = 4

Brand	Item
Legrand	
BTicino	

Updating history

Version	Date	Author
1.0.0	05/19/2006	Bticino S.p.A. Direzione Marketing e Sviluppo Prodotti (Sviluppo Software Embedded) Via L. Manara, 4 Erba (CO) Italy www.myopen-legrandgroup.com
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INDEX

Heating adjustment (WHO = 4)

1.1 WHAT table:

0	Conditioning Mode
1	Heating Mode
102	Anti Freeze
202	Thermal Protection
302	Protection (generic)
103	OFF – Heating Mode
203	OFF – Conditioning Mode
303	OFF (Generic)
110	Manual-adjustment Mode – Heating
210	Manual-adjustment Mode – Conditioning
310	Manual-adjustment Mode (Generic)
111	Programming Mode – Heating
211	Programming Mode - Conditioning
311	Programming Mode (generic)
115	Holiday daily plan – Heating Mode
215	Holiday daily plan – Conditioning Mode
315	Holiday daily plan
13xxx	Vacation scenario for xxx days – Heating mode (Xxx=0…999)
23xxx	Vacation scenario for xxx days – Conditioning mode (xxx=0….999)
33xxx	Vacation scenario for xxx days (xxx=0….999)
3000	Vacation scenario disabled
11xx	Heating program x (x=1…3)
21xx	Conditioning program x (x=1…3)
31xx	Last activated program
3100	Scenario xx (xx=1…16)
12xx	Scenario xx (xx=1...16)
22xx	Last activated scenario
32xx	Holiday scenario for xxx days – Heating mode (Xxx=0…999)
3200	Holiday scenario for xxx days – Conditioning mode (xxx=0….999)
20	Remote control disabled
21	Remote control enabled
22	At least one probe OFF
23	At least one probe in Anti Freeze
24	At least one probe in Manual
30	Failure discovered
31	Central Unit battery KO
40	Release of sensor local adjustment

1.2 WHERE table:

0	General probes (all probes)
1	Zone 1 master probe
2	Zone 2 master probe
…	…
10	Zone 10 master probe
…	…
99	Zone 99 master probe
001	All probes (master and slave) belonging to Zone 1
002	All probes (master and slave) belonging to Zone 2
…	…
010	All probes (master and slave) belonging to Zone 10
…	…
099	All probes (master and slave) belonging to Zone 99
101	Probe 1 of Zone 1
201	Probe 2 of Zone 1
…	…
801	Probe 8 of Zone 1
102	Probe 1 of Zone 2
202	Probe 2 of Zone 2
…	…
802	Probe 8 of Zone 2
…	…
199	Probe 1 of Zone 99
299	Probe 2 of Zone 99
…	…
899	Probe 8 of Zone 99
#0	Central Unit
#1	Zone 1 via Central Unit
#2	Zone 2 via Central Unit
…	…
#10	Zone 10 via Central Unit
…	…
#99	Zone 99 via Central Unit

1.3 DIMENSION table:

0	Measures Temperature	R
11	Fan coil Speed	R
12	Complete probe status	R
13	Local set offset	R
14	Set Point temperature	R/W
19	Valves status	R
20	Actuator Status	R
22	Split Control	R/W
30	End date Holiday Scenario	R/W

1.4 Allowed OPEN messages Command Session : Zones set up

1.4.1 Manual setting of "N" zone to T temperature

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*#14*T*M##	**where** = [#1 - #99] Setup zone by Central Unit. **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0050" (5° temperature) and "0400" (40° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [05° - 40°]. c4 indicates the decimal Celsius degree by 0.5° step. **M** = operation mode 1 → heating mode 2 → conditional mode 3 → generic mode Example: You set up 10 zone at 21.5°C in heating mode: *#4*#10*#14*0215*1##
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*0*T## *4*what*where##	N zone's temperature acquire frame: **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

		"N" zone operation mode by central unit frame: **where** = [#1 - #99] Setup zone by Central Unit. **what** = 110 → Manual heating 210 → Manual Conditioning 310→ Manual Generic

1.4.2 Set the "N" zone in automatic mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*311*#where##	**where** = [#1 - #99] Setup zone by Central Unit.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*where##	"N" zone operation mode by central unit frame: **where** = [#1-#99] **what** = 111 → Automatic heating 211 → Automatic Conditioning 311 → Automatic Generic
	*#4*where*0*T##	N zone's temperature acquire frame: **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.4.3 Set the "N" zone in off mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*303*where##	**where** = [#1 - #99] Setup zone by Central Unit.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*303*where## *4*what*where## *#4*where*0*T##	**where** = [1-99]. "N" zone operation mode by central unit frame: **where** = [#1-#99] **what** = 103 → Off Heating 203 → Off Conditioning "N" zone's temperature acquire frame: (ONLY IF THE PROBE IS SET UP WITH LOCAL OFFSET DIFFERENT FROM ZERO): **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.4.4 Set the "N" zone in antifreeze mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*102*where##	**where** = [#1 - #99] Setup zone by Central Unit. If Central Unit is set up in Conditioning mode, this command does not run.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.

Monitor Session	Open Frame	Note
Tcp/Ip Client monitor ← Server	*4*what*where##	"N" zone status / operation mode frame: **where** = [1-99] **what** = 102 → Antifreeze 303 → Generic OFF **where** = [#1 - #99] Setup zone by Central Unit.
	*4*102*where##	N zone's temperature acquire frame: (ONLY IF THE PROBE IS SET UP WITH LOCAL OFFSET DIFFERENT FROM ZERO): **where** = [1-99]
	*#4*where*0*T##	**T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.4.5 Set the "N" zone in thermal protection mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*202*where##	**where** = [#1 - #99] Setup zone by Central Unit. If Central Unit is set up in Heating mode, this command does not run.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*where##	"N" zone status / operation mode frame: **where** = [1-99] **what** = 202 → Thermal Protection 303 → Generic OFF
	*4*202*where##	**where** = [#1 - #99] Setup zone by Central Unit.

	*#4*where*0*T##	N zone's temperature acquire frame: (ONLY IF THE PROBE IS SET UP WITH LOCAL OFFSET DIFFERENT FROM ZERO): **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.4.6 Set the "N" zone in generic protection mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*302*where##	**where =** [#1 - #99] Setup zone by Central Unit.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*where##	"N" zone status / operation mode frame: **where** = [1-99] **what** = 102 → Antifreeze 302 → Thermal Protection 303 → Generic OFF
	*4*what*where##	**where** = [#1 - #99] Setup zone by Central Unit. **what** = 102 → Antifreeze 202 → Thermal Protection
	*#4*where*0*T##	N zone's temperature acquire frame: (ONLY IF THE PROBE IS SET UP WITH LOCAL OFFSET DIFFERENT FROM ZERO): **where** = [1-99] **T** = Zone operation temperature not ad just by local offset.

		The T field is composed from 4 digits: c1c2c3c4, included between “0000” (0° temperature) and “0500” (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.4.7 “N” zone local release probe

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*40*where##	**where** = [1-99]
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*where##	**where** = [1-99] **what** = 0 → Conditioning 1 → Heating 102 → Antifreeze 202 → Thermal Protection 303 → Generic OFF
	*#4*where*0*T##	N zone’s temperature acquire frame: (ONLY IF THE PROBE IS SET UP WITH LOCAL OFFSET DIFFERENT FROM ZERO): **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0000” (0° temperature) and “0500” (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.5 Allowed OPEN messages Command Session: Zones dimensions and status request

1.5.1 "N" zone measures temperature request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*0##	Master probe temperature request: **where** = [1-99] Slave probe temperature request: **where** = [1-8]+[01-99] All slave probes temperature request: **where** = 0+[01-99] Examples: "1" zone temperature request: *#4*1*0## "1" zone's "3" slave probe temperature request: *#4*301*0## "1" zone's all slave probes temperature request: *#4*001*0##
Tcp/Ip Client ← Server	*#4*where*0*T##	Master probe N zone's temperature acquire frame: **where** = [1-99] "S" Slave probe N zone's temperature acquire frame: **where** = S+N = [1-8]+[1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. If is required the all slave probes' temperature, we will get the same number of frames as number of slave probes are.

		Example: “1” zone’ temperature acquired is 20,5°C: *#4*1*0*0205## “3” zone’ temperature acquired is 27,0°C: *#4*301*0*0270##
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*0*T##	See upper comment.

1.5.2 Speed of the Fan Coil

Command Session	**Open Frame**	**Note**
Tcp/Ip: Client → Server	*#4*where*11##	**where** = [1-99].
Tcp/Ip Client ← Server	*#4*where*11*speed*##	**Speed:** • 0 = Auto • 1 = vel 1 • 2 = vel2 • 3 = vel3 • 15 = OFF
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*11*speed*##	See upper comment.

1.5.3 "N" zone set-point temperature adjusts with local offset and operation mode request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*12##	**where** = [1-99].
Tcp/Ip Client ← Server	*#4*where*12*T*3##	**where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.
	*4*what*where##	Zone operation mode acquire frame: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating 102 → Antifreeze 202 → Thermal Protection 303 → Generic OFF
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*12*T*3## *4*what*where##	See upper comment.

1.5.4 "N" zone local offset status request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*13##	**where** = [1-99]

Tcp/Ip Client ← Server	*#4*where*13*OL##	**where** = [1-99] **OL** = Local Offset (knob status): 00 → knob on 0 01 → knob on +1 (degree) 11 → knob on -1 (degree) 02 → knob on +2 (degree) 12 → knob on -2 (degree) 03 → knob on +3 (degree) 13 → knob on -3 (degree) 4 → knob on Local OFF 5 → knob on Local protection
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*13*OL##	See upper comment.

1.5.5 "N" zone set point temperature request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*14##	**where** = [1-99]
Tcp/Ip Client ← Server	*#4*where*14*T*3##	**where** = [1-99] **T** = n zone set point temperature. The T field is composed from 4 digits: c1c2c3c4, included between "0050" (5° temperature) and "0400" (40° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [05° - 40°]. c4 indicates the decimal Celsius degree by 0.1° step.
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*14*T*3##	See upper comment.

1.5.6 "N" zone status request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where##	**where** = [1-99]
Tcp/Ip Client ← Server	*#4*where*0*T##	**where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	*#4*where*12*T*3##	Zone operation temperature with adjust by local offset frame: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.
	*4*what*where##	Zone operation mode acquire frame: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating 102 → Antifreeze 202 → Thermal Protection 303 → Generic OFF
	*#4*where*13*OL##	Local offset acquire frame: **where** = [1-99] **OL** = Local Offset (knob status):

	*#4*where*14*T*3##	00 → knob on 0 01 → knob on +1 (degree) 11 → knob on -1 (degree) 02 → knob on +2 (degree) 12 → knob on -2 (degree) 03 → knob on +3 (degree) 13 → knob on -3 (degree) 4 → knob on Local OFF 5 → knob on Local protection Set-point temperature acquire frame: **where** = [1-99] **T** = N zone set point temperature. The T field is composed from 4 digits: c1c2c3c4, included between “0050” (5° temperature) and “0400” (40° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [05° - 40°]. c4 indicates the decimal Celsius degree by 0.1° step.
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*12*T*3## *4*what*where## *#4*where*13*OL## *#4*where*14*T*3##	See upper comment.

1.5.7 N" zone valves status request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*19##	**where** = [1-99]
Tcp/Ip Client ← Server	*#4*where*19*CV*HV##	**where** = [1-99] **CV, HV =** Valves' status, CV: Conditioning Valve and HV: Heating Valve CV, HV = 0 → OFF CV, HV = 1 → ON CV, HV = 2 → Opened CV, HV = 3 → Closed CV, HV = 4 → Stop CV, HV = 5 → OFF Fan Coil CV, HV = 6 → ON speed 1 CV, HV = 7 → ON speed 2 CV, HV = 8 → ON speed 3
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*19*CV*HV##	See upper comment.

1.5.8 Actuator status

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*20##	**where** = • Actuators N of zone Z [Z#N] = [0-99#1-9] • All the actuators of zone F [Z#0] • All the actuators [0#0]
Tcp/Ip Client ← Server	*#4*where*20*Val##	**Where=** see upper comments **Val=** • 0= OFF • 1= ON • 2= Opened • 3= Closed • 4= Stop • 5= Off Fan Coil • 6= ON Vel 1 • 7= ON Vel 2 • 8= ON Vel 3 • 9= ON Fan Coil
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*where*20*Val##	See upper comment.

1.6 Allowed OPEN messages Command Session: Central Unit set up

1.6.1 Manual setting of central unit to T temperature

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*#0*#14*T*M##	**T** = set point temperature by Central Unit The T field is composed from 4 digits: c1c2c3c4, included between “0050” (5° temperature) and “0400” (40° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [05° - 40°]. c4 indicates the decimal Celsius degree by 0.5° step. **M** = operation mode 1 → heating mode 2 → conditional mode 3 → generic mode
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what#T*#0## *4*[20-21]*#0## *4*what$_1$*#0## … *4*what$_n$*#0##	**what** = 110 → Manual mode - Heating 210 → Manual mode - Conditioning **T** = Central Unit operation temperature The T field is composed from 4 digits: c1c2c3c4, included between “0000” (0° temperature) and “0500” (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status:

	4 what* where$_1$## … *4* what* where$_n$## *#4*where$_1$*0*T## … *#4*where$_n$*0*T##	**what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This optional frame indicates the changing status's zone **where** = [1-99] **what** = 0 → Conditioning 1 → Heating This frame indicates the all zone temperature's acquired: **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.2 Set the central unit in off mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*303*#0##	
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*[20-21]*#0## *4*what$_1$*#0## … *4*what$_n$*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** =

		22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO 103 → OFF Heating 203 → OFF Conditioning
	*4*303* where$_1$## … *4*303* where$_n$#	**where** = [1-99]
	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	The follows frames are displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	**where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.3 Set central unit in thermal protection

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*202*#0##	If Central Unit is set up in Heating mode, this command does not run.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*202*#0## *4*[20-21]*#0## *4*$what_1$*#0## … *4*$what_n$*#0## *4* what* $where_1$## … *4* what* $where_n$## *4*what* $where_1$## … *4*what* $where_n$## *#4*$where_1$*0*T## … *#4*$where_n$*0*T##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This optional frame indicates the changing status's zone **where** = [1-99] **what** = 0 → Conditioning **where** = [1-99] **what** = 202 → Thermal Protection 303 → Generic OFF The follows frames are displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature).

	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0020” (2° temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.4 Set central unit in antifreeze mode

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*102*#0##	If Central Unit is set up in Conditioning mode, this command does not run.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*102*#0## *4*[20-21]*#0## *4*what$_1$*#0## … *4*what$_n$*#0## *4* what* where$_1$## … *4* what* where$_n$##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO

	*4*what* where$_1$## … *4*what* where$_n$##	This optional frame indicates the changing status's zone **where** = [1-99] **what** = 1 → Heating
	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	**where** = [1-99] **what** = 102 → Antifreeze 303 → Generic OFF
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	The follows frames are displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
		where = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.5 Weekly conditioning program activation command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Heating mode, this command does not run. **what** = [2101 – 2103] set in program.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	**what** = [2101 – 2103] set in program.
	*4*what*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone **where** = [1-99] **what** = 0 → Conditioning
	*#4*$where_1$*0*T## … *#4*$where_n$*0*T##	**where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 $where_1$*12*T*3## … *#4* $where_n$*12*T*3##	

		This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.6 Weekly heating program activation command

Command Session	**Open Frame**	**Note**
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Conditioning mode, this command does not run. **what** = [1101 – 1103] set in program.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*what*#0## *4*$what_1$*#0## … *4*$what_n$*#0# *4* what* $where_1$## … *4* what* $where_n$##	**what** = [1101 – 1103] set in program. This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This optional frame indicates the changing status's zone: **where** = [1-99] **what** =

	*#4*where$_1$*0*T## … *#4*where$_n$*0*T## *#4* where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	1 → Heating **where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0000” (0° temperature) and “0500” (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. This frame is displayed only if the local offset’s probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0020” (2° temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.7 Weekly program activation command (without specific mode)

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	**what** = [3101 – 3103] set in program.
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*what*#0##	**what** = [3101 – 3103] set in program. This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled

	*4*what$_1$*#0## … *4*what$_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* where$_1$## … *4* what* where$_n$##	This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating
	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	**where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.8 Last set up weekly program activation command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*3100*#0##	
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	If Central Unit is set in Heating mode: **what** = [1101 – 1103] set in program. If Central Unit is set in Conditioning mode: **what** = [2101 – 2103] set in program.
	*4*what*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating
	*#4*$where_1$*0*T## … *#4*$where_n$*0*T##	**where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 $where_1$*12*T*3## …	

	#4 where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.9 Conditioning scenario activation command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Heating mode, this command does not run. **what** = [2201-2216]
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	**what** = [2201 – 2216] scenario set in.
	*4*what*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 0 → Conditioning
	*#4*$where_1$*0*T## … *#4*$where_n$*0*T##	**where** = [1-99] **T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 $where_1$*12*T*3## … *#4* $where_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0:

		where = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0020” (2° temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.10 Heating scenario activation command

Command Session	**Open Frame**	**Note**
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Conditioning mode, this command does not run. **what** = [1201-1216]
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	**what** = [1201 – 1216] scenario set in.
	*4*what*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status’s zone: **where** = [1-99] **what** = 1 → Heating
	*#4*$where_1$*0*T## … *#4*$where_n$*0*T##	**where** = [1-99]

	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	**T** = Zone operation temperature not ad just by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0000” (0° temperature) and “0500” (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. This frame is displayed only if the local offset’s probe is different from 0 **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0020” (2° temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.11 Scenario activation command (without specific mode)

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	**what** = [3201 – 3216]
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*what*#0## *4*what$_1$*#0##	If Central Unit is set in Heating mode: **what** = [1201 – 1216] set in program. If Central Unit is set in Conditioning mode: **what** = [2201 – 2216] set in program. This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled

	… *4*what$_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* where$_1$## … *4* what* where$_n$##	This optional frame indicates the changing status's zone **where** = [1-99] **what** = 0 → Conditioning 1 → Heating
	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	**where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0 **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.12 Last set up scenario activation command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*3200*#0##	
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	If Central Unit is set in Heating mode: **what** = [1201 – 1216] set in program. If Central Unit is set in Conditioning mode: **what** = [2201 – 2216] set in program.
	*4*what*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating
	*#4*$where_1$*0*T## … *#4*$where_n$*0*T##	**where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 $where_1$*12*T*3## …	

	#4 where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.13 (Heating) holiday mode activation command with weekly program return at midnight

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Conditioning mode, this command does not run. **what = 115#parameter** **parameter** = [1101 – 1103] returned program
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*what*#0## *4*what$_1$*#0## … *4*what$_n$*#0## *4* what* where$_1$## … *4* what* where$_n$##	**what** = 115#[1 – 3] (example: if the 1103 program is selected, number 3 is returned) This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO

	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	This optional frame indicates the changing status's zone **where** = [1-99] **what** = 1 → Heating **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.14 (Conditioning) holiday mode activation commend with weekly program return at midnight

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Heating mode, this command does not run. **what = 215#parameter** **parameter** = [2101 – 2103] returned program
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*what*#0## *4*$what_1$*#0## … *4*$what_n$*#0## *4* what* $where_1$## … *4* what* $where_n$## *#4*$where_1$*0*T## … *#4*$where_n$*0*T## *#4* $where_1$*12*T*3##	**what** = 215#[1 – 3] (example: if the 2103 program is selected, number 3 is returned) This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 0 → Conditioning **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°].

	… *#4* where$_n$*12*T*3##	c4 indicates the decimal Celsius degree by 0.1° step. This frame is displayed only if the local offset's probe is different from 0 **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.15 Holiday mode activation command with weekly program return at midnight

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	**what = 315#parameter** **parameter** = [3101 – 3103] returned program
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## o *4*what*#0## *4*what*#0## *4*what$_1$*#0## … *4*what$_n$*#0##	If it is Heating mode: **what** = 115#parameter If it is Conditioning mode: **what** = 215#parameter **parameter** = [1 – 3] (example: if the 2103 program is selected, number 3 is returned) This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF

	4 what* where$_1$## … *4* what* where$_n$##	23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This optional frame indicates the changing status's zone: **where** = [1-99] **what** =
	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	0 → Conditioning 1 → Heating **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.16 (Heating) N days holiday mode activation command with weekly program return at holiday mode deadline

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Conditioning mode, this command does not run. **what** = parameter1#parameter2 **parameter1** = [13001-13255] Holiday days from 1 to 255 **parameter2** = [3101-3103] returned program from 1 to 3 Example: Enable 2 days holiday (without the current day) with number 3 weekly program return *4*13002#3103*#0##
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	**what** = parameter1+1 Day (it is also included the current day) Example: As Previous example explains, the holiday days are 3 because it is considered the current day. *4*13003*#0##
	4[20-21]*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 1 → Heating
	*4*what* $where_1$## … *4*what* $where_n$##	**where** = [1-99]

	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	**what** = 202 → Thermal Protection 303 → Generic OFF This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.17 (Conditioning) N days holiday mode activation command with weekly program return at holiday mode deadline

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	If Central Unit is set up in Heating mode, this command does not run. **what** = parameter1#parameter2 **parameter1** = [23001-23255] Holiday days from 1 to 255 **parameter2** = [3101-3103] returned program from 1 to 3 Example: Enable 2 days holiday (without the current day) with number 3 weekly program return *4*23002#3103*#0##
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	**what** = parameter1+1 Day (it is also included the current day) Example: As Previous example explains, the holiday days are 3 because it is considered the current day. *4*23003*#0##
	4[20-21]*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone **where** = [1-99] **what** = 0 → Conditioning
	*4*what* $where_1$## … *4*what* $where_n$##	**where** = [1-99]

	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	**what** = 102 → Antifreeze 303 → Generic OFF This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.18 N days holiday mode activation command with weekly program return at holiday mode deadline

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*what*#0##	**what** = parameter1#parameter2 **parameter1** = [33001-33255] Holiday days from 1 to 255 **parameter2** = [3101-3103] returned program from 1 to 3 Example: Enable 2 days holiday (without the current day) with number 3 weekly program return *4*33002#3103*#0##
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0##	**what** = parameter1+1 Day (it is also included the current day) Example: As Previous example explains, the holiday days are 3 because it is considered the current day. *4*33003*#0##
	4[20-21]*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled
	*4*$what_1$*#0## … *4*$what_n$*#0##	This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO
	4 what* $where_1$## … *4* what* $where_n$##	This optional frame indicates the changing status's zone: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating
	*4*what* $where_1$## … *4*what* $where_n$##	**where** = [1-99] **what** =

	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	102 → Antifreeze 202 → Thermal Protection 303 → Generic OFF This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset's probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.19 Holiday mode deactivation command with weekly "N" program return

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*3000#what*#0##	**what** = [3101 – 3103]
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*[20-21]*#0## *4*$what_1$*#0## … *4*$what_n$*#0## *4* what*$where_1$## … *4* what*$where_n$## *#4*$where_1$*0*T## … *#4*$where_n$*0*T## *#4* $where_1$*12*T*3## … *#4* $where_n$*12*T*3##	**what** = [3101 – 3103] weekly program. This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This optional frame indicates the changing status's zone **where** = [1-99] **what** = 0 → Conditioning 1 → Heating **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. This frame is displayed only if the local offset's probe is different from 0:

		where = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0020” (2° temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.20 Holiday mode deactivation command with last weekly program return

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*4*3000*#0##	
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#0## *4*[20-21]*#0## *4*what*where$_1$## … *4*what*where$_n$## *4*what$_1$*#0## … *4*what$_n$*#0##	**what** = [2101 – 2103] weekly program in case of it is in Conditioning mode. or **what** = [1101 – 1103] weekly program in case of it is in Heating mode. This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the changing status’s zone: **what** = 0 → Conditioning 1 → Heating **where** = [1-99] This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual

	*#4*where$_1$*0*T## … *#4*where$_n$*0*T##	30 → Failure discovered 31 → Central Unit battery KO **where** = [1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0000” (0° temperature) and “0500” (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step.
	#4 where$_1$*12*T*3## … *#4* where$_n$*12*T*3##	This frame is displayed only if the local offset’s probe is different from 0: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between “0020” (2° temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.6.21 Set holiday deadline date

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*#0*#30*parameter##	**parameter** = Day*Month*Year Day = [01-31] Month = [01-12] Year = [2000-2099] Example: 12 June 2005 is holiday end date *#4*#0*#30*12*06*2005##
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*#0*30*parameter##	See upper comment.

1.6.22 Set holiday deadline hour

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*#0*#31*parameter##	**parameter** = Hour*Minutes Hour = [00-23] Minutes = [00-59] Example: 8:59 is holiday end time *#4*#0*#31*08*59##
TCP/IP: Client←Server	*#*1## or *#*0##	**ACK** if command is sent to Bus. **NACK** if command is not sent to Bus.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*#0*31*parameter##	See upper comment.

1.7 Allowed OPEN messages Command Session: dimensions and status request at Central Unit

1.7.1 "N" zone operation mode request of central unit

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where##	**where** = [#1 - #99] Request zone by Central Unit.
Tcp/Ip Client ← Server	*4*what*#where##	**where** = [#1 - #99] Request zone by Central Unit. **what** = 110 → Manual Heating 210 → Manual Conditioning 111 → Automatic Heating 211 → Automatic Conditioning 103 → Off Heating 203 → Off Conditioning 102 → Antifreeze 202 → Thermal Protection
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*4*what*#where##	See upper comment.

1.7.2 Central unit operation mode request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*#0##	
Tcp/Ip Client ← Server	*4*what*#0## *4*$what_1$*#0## … *4*$what_n$*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF

	*4*what*#0##	23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This frame indicates the Central Unit's operation mode, the *what* field can assume one of the follow values: **what** = 110#T → Manual Heating 210#T → Manual Conditioning 103 → Off Heating 203 → Off Conditioning 102 → Antifreeze 202 → Thermal Protection 115#parameterH → Holiday Heating 215#parameterC → Holiday Conditioning parameterH = [1101-1103] parameterC = [2101-2103] [13001-13255] → Holiday days in Heating mode [23001-23255] → Holiday days in Conditioning mode [1101-1103] → Memo program in Heating mode [2101-2103] → Memo program in Conditioning mode [1201-1216] → Memo scenario in Heating mode [2201-2216] → Memo scenario in Conditioning mode **T** = Central Unit operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip	*4*what*#0##	See upper comment.

Client monitor ← Server	*4*what$_1$*#0## … *4*what$_n$*#0## *4*what*#0##	

1.7.3 Holiday deadline date request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*#0*30##	
Tcp/Ip Client ← Server	*#4*#0*30*parameter##	**parameter** = Day*Month*Year Day = [01-31] Month = [01-12] Year = [2000-2099] Example: 12 June 2007 is holiday end date *#4*#0*#30*12*06*2007##
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*#0*30*parameter##	See upper comment.

1.7.4 Holiday deadline hour request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*#0*31##	
Tcp/Ip Client ← Server	*#4*#0*31*parameter##	**parameter** = Hour*Minutes Hour = [00-23] Minutes = [00-59] Example: 8:59 is holiday end time *#4*#0*#31*08*59##
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#4*#0*31*parameter##	See upper comment.

1.8 Allowed OPEN messages Monitor Session

1.8.1 "N" zone measures temperature

Monitor Session	Open Frame	Note
Tcp/Ip Client monitor ← Server	*#4*where*0*T##	"N" zone's Master probe temperature acquire: **where** = [1-99] "N" zone's "S" slave probe temperature acquire: **where** = S+N = [1-8]+[1-99] **T** = Zone operation temperature not adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0000" (0° temperature) and "0500" (50° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [00° - 50°]. c4 indicates the decimal Celsius degree by 0.1° step. Example: "1" zone's temperature acquired is 20,5°C: *#4*1*0*0205## "3" zone's temperature acquired is 27,0°C: *#4*301*0*0270##

1.8.2 Speed Fan Coil

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*11*speed##	**Speed:** • 0 = Auto • 1 = vel 1 • 2 = vel2 • 3 = vel3 • 15 = OFF

1.8.3 "N" zone set point temperature adjusts with local offset

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*12*T*3##	Temperature with adjust by local offset acquire frame: **where** = [1-99] **T** = Zone operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2° temperature) and "0430" (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.8.4 "N" zone local offset status

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*13*OL##	Local offset acquire frame: **where** = [1-99] **OL** = Local Offset (knob status): 00 → knob on 0 01 → knob on +1 (degree) 11 → knob on -1 (degree) 02 → knob on +2 (degree) 12 → knob on -2 (degree) 03 → knob on +3 (degree) 13 → knob on -3 (degree) 4 → knob on Local OFF 5 → knob on Local protection

1.8.5 “N” zone set point temperature

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*14*T*3##	**where** = [1-99] **T** = N zone set point temperature. The T field is composed from 4 digits: c1c2c3c4, included between “0050” (5° temperature) and “0400” (40° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [05° - 40°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.9 “N” zone valves status

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*19*CV*HV##	**where** = [1-99] **CV, HV =** Valves’ status, CV: Conditioning Valve and HV: Heating Valve CV, HV = 0 → OFF CV, HV = 1 → ON CV, HV = 2 → Opened CV, HV = 3 → Closed CV, HV = 4 → Stop CV, HV = 5 → OFF Fan Coil CV, HV = 6 → ON speed 1 CV, HV = 7 → ON speed 2 CV, HV = 8 → ON speed 3

1.9.1 Actuator Status

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*20*Value##	**where** = • Actuators N of zone Z [Z#N] = [0-99#1-9] • All the actuators of zone F [Z#0] • All the actuators [0#0] **Val=** • 0= OFF • 1= ON • 2= Opened • 3= Closed • 4= Stop • 5= Off Fan Coil • 6= ON Vel 1 • 7= ON Vel 2 • 8= ON Vel 3 • 9= ON Fan Coil

1.9.2 "N" zone operation mode

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*4*what*where##	Zone operation mode acquire frame: **where** = [1-99] **what** = 0 → Conditioning 1 → Heating 102 → Antifreeze 202 → Thermal Protection 303 → Generic OFF

1.9.3 Central unit operation mode

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*4*what*#0##	This frame indicates the Remote control status: **what** = 20 → Remote control disabled 21 → Remote control enabled This optional frame indicates the system status: **what** = 22 → At least one probe OFF 23 → At least one probe in protection 24 → At least one probe in manual 30 → Failure discovered 31 → Central Unit battery KO This frame indicates the Central Unit's operation mode, the *what* field can assume one of the follow values: **what** = 110#T → Manual Heating 210#T → Manual Conditioning 103 → Off Heating 203 → Off Conditioning 102 → Antifreeze 202 → Thermal Protection 115#parameterH → Holiday Heating 215#parameterC → Holiday Conditioning parameterH = [1101-1103] parameterC = [2101-2103] [13001-13255] → Holiday days in Heating mode [23001-23255] → Holiday days in Conditioning mode [1101-1103] → Memo program in Heating mode [2101-2103] → Memo program in Conditioning mode [1201-1216] → Memo scenario in Heating mode [2201-2216] → Memo scenario in Conditioning mode **T** = Central Unit operation temperature with adjust by local offset. The T field is composed from 4 digits: c1c2c3c4, included between "0020" (2°

		temperature) and “0430” (43° temperature). c1 is always equal to 0, it indicates a positive temperature. The c2c3 couple indicates the temperature values between [02° - 43°]. c4 indicates the decimal Celsius degree by 0.1° step.

1.9.4 “N” zone operation mode by central unit

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*4*what*where##	**where** = [#1 - #99] Request zone by Central Unit. **what** = 110 → Manual Heating 210 → Manual Conditioning 111 → Automatic Heating 211 → Automatic Conditioning 103 → Off Heating 203 → Off Conditioning 102 → Antifreeze 202 → Thermal Protection

1.10 Frames in order to control Split

1.10.1 Request Split Control (Dimension 22)

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#4*where*22##	**Where=** 3#<where actuators> **Where actuators=** Z#N = [0-99]#[1-9]
Tcp/Ip Client ← Server	*#4*where*22*MOD*SP*VEL*SWING##	**Where=** 3#<where actuators> **Where actuators=** Z#N = [0-99]#[1-9] **MOD** can assume the following values: 0: Off 1: Winter 2: Summer 3: Fan 4: Dehumidification 5: Auto NULL: Current modality **SP** is the temperature regulated expressed in Celsius and 0,5° C range: 000: 0°C 005: 0,5°C 010: 1°C … 1265: 126,5°C 1270: 127°C NULL: current or insignificant set point **VEL** is the speed to set on the split: 0: Auto 1: minimum speed 2: medium speed 3: maximum speed 4: silent mode NULL: current or insignificant speed **SWING** is the setting of the Fan Swing 0:off 1: on NULL: current or insignificant swing
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.

1.10.2 Set control Split (Dimension 22)

Command Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*#22*MOD*SP*VEL*SWING##	**Where=** 3#<where actuators> **Where actuators=** Z#N = [0-99]#[1-9] **MOD** can assume the following values: 0: Off 1: Winter 2: Summer 3: Fan 4: Dehumidification 5: Auto NULL: Current modality **SP** is the temperature regulated expressed in Celsius and 0,5° C range: 000: 0°C 005: 0,5°C 010: 1°C … 1265: 126,5°C 1270: 127°C NULL: current or insignificant set point **VEL** is the speed to set on the split: 0: Auto 1: minimum speed 2: medium speed 3: maximum speed 4: silent mode NULL: current or insignificant speed **SWING** is the setting of the Fan Swing 0:off 1: on NULL: current or insignificant swing
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.

1.11 Frames to update the staus of the Split

1.11.1 Control status split (Dimension 22)

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#4*where*22*MOD*SP*VEL*SWING##	**Where actuators=** Z#N = [0-99]#[1-9] **MOD** can assume the following values: 0: Off 1: Winter 2: Summer 3: Fan 4: Dehumidification 5: Auto NULL: Current modality **SP** is the temperature regulated expressed in Celsius and 0,5° C range: 000: 0°C 005: 0,5°C 010: 1°C … 1265: 126,5°C 1270: 127°C NULL: current or insignificant set point **VEL** is the speed to set on the split: 0: Auto 1: minimum speed 2: medium speed 3: maximum speed 4: silent mode NULL: current or insignificant speed **SWING** is the setting of the Fan Swing 0:off 1: on NULL: current or insignificant swing
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.

1.12 Diagnostic of Heating adjustment (WHO=1004)

1.13 WHERE table

1	Zone 1 master probe
2	Zone 2 master probe
…	…
99	Zone 99 master probe
#0	Central unit
#1	Zone 1 via central unit
#2	Zone 2 via central unit
…	…
#99	Zone 99 via central unit

1.14 DIMENSION table

7	Central Unit Diagnostic	R
11	Central Unit Auto diagnostic	R
20	Probe diagnostic (only zones with failures)	R
21	Probe diagnostic (all zones)	R
22	Auto diagnostic of failures	R
23	Number of zone with failures	R

1.15 Allowed OPEN messages command session: Diagnostic Request

1.15.1 Central unit diagnostic request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#1004*#0*7##	
Tcp/Ip Client ← Server	*#1004*#0*7*BIT##	The **BIT** field is composed by BIT_1 ... $BIT_{24.}$ The most important bits are: Bit_{13} → if is 0 there is a probe failure Bit_{14} → if is 0 a probe not answer Bit_{15} → if is 0 Central Unit battery is KO Bit_{16} → if is 0 EEPROM read/write failure Bit_{21} → if is 0 system generic trouble Bit_{22} → if is 0 configuration trouble Bit_{23} → if is 0 hardware failure

		Bit_{24} → if is 0 device is busy
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#1004*#0*7*BIT##	See upper comment.

1.15.2 Zone failure diagnostic request command

Command Session	**Open Frame**	**Note**
Tcp/Ip: Client → Server	*#1004*#0*20##	
Tcp/Ip Client ← Server	*#1004*#0*20## *#1004*$where_1$*21*BIT## … *#1004*$where_n$*21*BIT##	**where** = [#1 - #99] Failure zones detected by Central Unit. The **BIT** field is composed by BIT_1 ... $BIT_{16.}$ The most important bits are: Bit_{11} → if is 0 a probe does not answer Bit_{12} → if is 0 a pump does not answer Bit_{13} → if is 0 EEPROM read/write failure Bit_{14} → if is 0 temperature out of range Bit_{15} → if is 0 a slave probe does not answer Bit_{16} → if is 0 an actuator does not answer
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#1004*where*21*BIT##	See upper comment.

1.15.3 N zone diagnostic request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#1004*where*21##	**where** = [#1 - #99] Zones requested by Central Unit.
Tcp/Ip Client ← Server	*#1004*where*21*BIT##	**where** = [#1 - #99] Zones requested by Central Unit. The **BIT** field is composed by BIT_1 ... $BIT_{16.}$ The most important bits are: Bit_{11} → if is 0 a probe does not answer Bit_{12} → if is 0 a pump does not answer Bit_{13} → if is 0 EEPROM read/write failure Bit_{14} → if is 0 temperature out of range Bit_{15} → if is 0 a slave probe does not answer Bit_{16} → if is 0 an actuator does not answer
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#1004*where*21*BIT##	See upper comment.

1.15.4 Every zone diagnostic request command

Command Session	Open Frame	Note
Tcp/Ip: Client → Server	*#1004*#0*21##	
Tcp/Ip Client ← Server	*#1004*#0*21## *#1004* $where_1$*21*BIT## … *#1004* $where_n$*21*BIT##	**where** = [#1 - #99] Zones requested by Central Unit. The **BIT** field is composed by BIT_1 ... $BIT_{16.}$ The most important bits are: Bit_{11} → if is 0 a probe does not answer Bit_{12} → if is 0 a pump does not answer Bit_{13} → if is 0 EEPROM read/write failure Bit_{14} → if is 0 temperature out of range Bit_{15} → if is 0 a slave probe does not answer Bit_{16} → if is 0 an actuator does not answer
Tcp/Ip	*#*1## or *#*0##	**ACK** If received almost one request answer

Client ← Server		**NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#1004*#0*21## *#1004* where$_1$*21*BIT## … *#1004* where$_n$*21*BIT##	See upper comment.

1.15.5 Failure / not answer zones number request command

Command Session	**Open Frame**	**Note**
Tcp/Ip: Client → Server	*#1004*#0*23##	
Tcp/Ip Client ← Server	*#1004*#0*23## *#1004*#0*23*parameter1*parameter2##	**Parameter1** = The number of non-answering probes **Parameter2** = The number of failure probes
Tcp/Ip Client ← Server	*#*1## or *#*0##	**ACK** If received almost one request answer **NACK** if not received answer or if the frame is not sent.
Monitor Session	**Open Frame**	**Note**
Tcp/Ip Client monitor ← Server	*#1004*#0*23## *#1004*#0*23*parameter1*parameter2##	See upper comment.

1.16 Allowed OPEN messages monitor session

1.16.1 Central unit diagnostic

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#1004*#0*7*BIT##	The **BIT** field is composed by BIT_1 ... $BIT_{24.}$ The most important bits are: Bit_{13} → if is 0 there is a probe failure Bit_{14} → if is 0 a probe not answer Bit_{15} → if is 0 Central Unit battery is KO Bit_{16} → if is 0 EEPROM read/write failure Bit_{21} → if is 0 system generic trouble Bit_{22} → if is 0 configuration trouble Bit_{23} → if is 0 hardware failure Bit_{24} → if is 0 device is busy

1.16.2 Central unit autodiagnostic

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#1004*#0*11*BIT##	This frame is sent from Central Unit when a system failure is detected. The **BIT** field is composed by BIT_1 ... $BIT_{24.}$ The most important bits are: Bit_{13} → if is 0 there is a probe failure Bit_{14} → if is 0 a probe not answer Bit_{15} → if is 0 Central Unit battery is KO Bit_{16} → if is 0 EEPROM read/write failure Bit_{21} → if is 0 system generic trouble Bit_{22} → if is 0 configuration trouble Bit_{23} → if is 0 hardware failure Bit_{24} → if is 0 device is busy

1.16.3 N zone diagnostic

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#1004*where*21*BIT##	**where** = [#1 - #99] The **BIT** field is composed by BIT_1 ... $BIT_{16.}$ The most important bits are: Bit_{11} → if is 0 a probe does not answer Bit_{12} → if is 0 a pump does not answer Bit_{13} → if is 0 EEPROM read/write failure Bit_{14} → if is 0 temperature out of range Bit_{15} → if is 0 a slave probe does not answer

		Bit_{16} → if is 0 an actuator does not answer

1.16.4 N zone autodiagnostic

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#1004*where*22*BIT##	This frame is sent from Central Unit when a failure of N zone is detected. **where** = [#1 - #99] The **BIT** field is composed by BIT_1 ... BIT_{16}. The most important bits are: Bit_{11} → if is 0 a probe does not answer Bit_{12} → if is 0 a pump does not answer Bit_{13} → if is 0 EEPROM read/write failure Bit_{14} → if is 0 temperature out of range Bit_{15} → if is 0 a slave probe does not answer Bit_{16} → if is 0 an actuator does not answer

1.16.5 Failure / Not answer zones number

Monitor Session	Open Frame	Note
Tcp/Ip Client ← Server	*#1004*#0*23*Parameter1*Parameter2##	**Parameter1** = The number of non-answering probes **Parameter2** = The number of failure probes

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