CTS 700

Modbus Registers Description

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1.   Abbreviations and terms

Abbreviation/term	Description
RTDB	**R**eal **T**ime **D**ata **B**ase
MODBUS	Serial communications protocol originally published by Modicon.
Ethernet	Family of computer networking technologies for local area networks.
MBAP	**M**od**B**us **Ap**plication header.
PDU	**P**rotocol **D**ata **U**nit.
R/W	**R**ead and **W**rite access level.
R	**R**ead only access level.
W	**W**rite only access level.

2.   Introduction

This manual contains information regarding the monitoring and control of Administration level Nilan NCS700 systems via MODBUS Ethernet. It include short protocol description, registers list and they a mapping into NCS700 RTDB variables.

The slave device uses **502**-nd port for requests receiving.

Modbus of NCS700 support two level of access to registers - the Common level and Administration level.

A access to Administration level registers executed with previous authentication only.

All attempts of access without previous authentication will fault and will return Modbus error.

3.   Short Modbus description

Modbus Ethernet has some differences from Modbus.

It has additional MBAP header and haven't Control Sum in the end of packet.

The example of Modbus Ethernet common pack introduce in the next table.

	Field name	Size	Description
MBAP	Transaction_ID	2	Transaction identifier
	Protocol_ID	2	Protocol identifier (Modbus = 0)
	Length	2	The length of PDU + 1
	Unit_ID	1	Address of requested slave device.
PDU	FCode	1	Modbus function code
	Data	2 - 250	Modbus pack data

3.1. Supported Modbus functions

NCS700 use Modbus Ethernet protocol (port:502) and support next functions:

Function code	Function name
03	Read Holding Registers
04	Read Input Registers
06	Preset Single Register
16	Preset Multiple Registers

In case of error the Modbus PDU are formed according to Modbus requirements.
The NCS700 produce next Modbus error codes:

Error code	Error name	Error description
01	Illegal function	If system get unsupported function code.
02	Illegal data address	If system get unsupported data address or some of registers in the request are inaccessible.
03	Illegal data values	In case of authentication procedure error.
04	Slave device failure	In case of internal slave device error.

3.2. Authentication procedure

For receiving access to Administration level registers it is necessary to execute authentication procedure. This procedure is an operation of password write into special registers.

If procedure is success and password is valid the access into Administration registers will open.

The authentication registers (first register number is 7777) description is placed in paragraph 6.267.

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4. Admin registers

4.1. Current system's type (prmSystem_Type)

23 (R/W)	Registers quantity : 1
ID of the current system.	Hi-byte: *MSB* Lo-byte:

systems ID

SYST_VPL	0	The VPL system
SYST_VPM	1	The VPM system
SYST_VLX_COMFORT	2	The VLX system
SYST_SOLAR	3	The SOLAR system
SYST_VPL15	4	The VPL15 system
SYST_VP18	5	The VP18 system
SYST_VP_COMPACT	6	The VP-Compact system
SYST_COMFORT	7	The Comfort system
SYST_JVP	8	The GEO system
SYST_UVP	9	The UVP system
SYST_HAL_ONLY	10	The I/O extension of the master system
SYST_EK	11	The EK system

4.2. Active devices bitmap (prmDevices)

24 (R/W)	Registers quantity : 16
The bitmap of activation/deactivation devices.	Hi-byte: *MSB* *Lo-byte:*

SubRegister 0

15	14	13	12	11	10	9	8
DI8	DI7	DI6	DI5	DI4	DI3	DI2	DI1
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
DI16	DI15	DI14	DI13	DI12	DI11	DI10	DI9

SubRegister 1

15	14	13	12	11	10	9	8
DI24	DI23	DI22	DI21	DI20	DI19	DI18	DI17
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
DI32	DI31	DI30	DI29	DI28	DI27	DI26	DI25

SubRegister 2

15	14	13	12	11	10	9	8

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DO4	DO3	DO2	DO1	DI36	DI35	DI34	DI33
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
DO12	DO11	DO10	DO9	DO8	DO7	DO6	DO5

SubRegister 3

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
DO20	DO19	DO18	DO17	DO16	DO15	DO14	DO13
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
DO28	DO27	DO26	DO25	DO24	DO23	DO22	DO21

SubRegister 4

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
DO36	DO35	DO34	DO33	DO32	DO31	DO30	DO29
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
DO44	DO43	DO42	DO41	DO40	DO39	DO38	DO37

SubRegister 5

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
TSENS8	TSENS7	TSENS6	TSENS5	TSENS4	TSENS3	TSENS2	TSENS1
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
TSENS16	TSENS15	TSENS14	TSENS13	TSENS12	TSENS11	TSENS10	TSENS9

SubRegister 6

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
TSENS24	TSENS23	TSENS22	TSENS21	TSENS20	TSENS19	TSENS18	TSENS17
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
TSENS32	TSENS31	TSENS30	TSENS29	TSENS28	TSENS27	TSENS26	TSENS25

SubRegister 7

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
TSENS40	TSENS39	TSENS38	TSENS37	TSENS36	TSENS35	TSENS34	TSENS33
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
TSENS48	TSENS47	TSENS46	TSENS45	TSENS44	TSENS43	TSENS42	TSENS41

SubRegister 8

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
AI6	AI5	AI4	AI3	AI2	AI1	TSENS50	TSENS49
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
AI14	AI13	AI12	AI11	AI10	AI9	AI8	AI7

SubRegister 9

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
PSENS2	PSENS1	AI20	AI19	AI18	AI17	AI16	AI15
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
PSENS10	PSENS9	PSENS8	PSENS7	PSENS6	PSENS5	PSENS4	PSENS3

SubRegister 10

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**

AO6	AO5	AO4	AO3	AO2	AO1	PSENS12	PSENS11
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
AO14	AO13	AO12	AO11	AO10	AO9	AO8	AO7

SubRegister 11

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
DAMPER2	DAMPER1	AO20	AO19	AO18	AO17	AO16	AO15
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
VLT5	VLT4	VLT3	VLT2	VLT1	FLTR_OUT	FILTR_IN	DAMPER3

SubRegister 12

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
COMPR1	BYPASS2	BYPASS1	4WAY	H_PIPE	HEATER	FAN_OUT	FAN_IN
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
CO2	AF_MTR2	AF_MTR1	COMPR6	COMPR5	COMPR4	COMPR3	COMPR2

SubRegister 13

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
PUMP2	PUMP1	P_HEAT	SOLAR	EK	HUMIDITY	DBYPASS	TPANEL
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
NTA_VT6	NTA_VT5	NTA_VT4	NTA_VT3	NTA_VT2	NTA_VT1	BA_HEX	PUMP3

SubRegister 14

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
NTA_VT14	NTA_VT13	NTA_VT12	NTA_VT11	NTA_VT10	NTA_VT9	NTA_VT8	NTA_VT7
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
NTA_VT22	NTA_VT21	NTA_VT20	NTA_VT19	NTA_VT18	NTA_VT17	NTA_VT16	NTA_VT15

SubRegister 15

15	**14**	**13**	**12**	**11**	**10**	**9**	**8**
NTA_VT30	NTA_VT29	NTA_VT28	NTA_VT27	NTA_VT26	NTA_VT25	NTA_VT24	NTA_VT23
7	**6**	**5**	**4**	**3**	**2**	**1**	**0**
Reserved	Reserved	Reserved	Reserved	Reserved	DV_HEAT	NTA_VT32	NTA_VT31

4.3. Extended step for 2-step Inlet fan (*prmFAN2inlet_Step*)

50 (R/W)	Registers quantity : 1
The extended step for inlet 2-step fan.	Hi-byte: *MSB* Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.4. Extended step for 2-step Outlet fan (*prmFAN2exhaust_Step*)

51 (R/W)	Registers quantity : 1
The extended step for outlet 2-step	Hi-byte: *MSB*

fan.	Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.5. Fan type (*prmFANType*)

1043 (R/W)	Registers quantity : 1
Fan type.	Hi-byte: *MSB* Lo-byte:

Types

1_STEP	0	1 step Fan
2_STEP	1	2 steps Fan
CAV_EXT	2	CAV Fan with external digital output.
CAV	3	CAV Fan
VAV	4	VAV Fan

4.6. Heater type (*prmHeaterType*)

1044 (R/W)	Registers quantity : 1
Heater type.	Hi-byte: *MSB* Lo-byte:

Types

WATER	0	Water heater
ELECTRIC_DIGIT	1	Electric heater with digital regulation
ELECTRIC_ANALOG	2	Electric heater with analog regulation

4.7. Compressor's type (*prmCompressor1Type*)

1046 (R/W)	Registers quantity : 1
Code of Compressor type	Reg1 Hi-byte: *MSB* Reg1 Lo-byte:

Types

STD	0	Compressor controller with Digital control
VLT	1	Compressor controller with Analog control
VLT HOT	2	Compressor controller with Analog control and inventor which stay active

4.8. Compressor's temperature Hi-limit1 (*prmHighLimit1*)

1048 (R/W)	Registers quantity : 1

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The value of Compressor's temperature first hi-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	210 ÷ 580 (21ºC ÷ 58ºC)

4.9. Compressor's temperature Hi-limit2 (*prmHighLimit2*)

1049 (R/W)	Registers quantity : 1
The value of Compressor's temperature second hi-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	210 ÷ 580 (21ºC ÷ 58ºC)

4.10. Compressor's temperature Lo-limit1 (*prmLowLimit1*)

1050 (R/W)	Registers quantity : 1
The value of Compressor's temperature first lo-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 210 (-40ºC ÷ 21ºC)

4.11. Compressor's temperature Lo-limit2 (*prmLowLimit2*)

1051 (R/W)	Registers quantity : 1
The value of Compressor's temperature second lo-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 210 (-40ºC ÷ 21ºC)

4.12. Compressor's pressure Hi-limit1 (*prmHighPressLimit1*)

1056 (R/W)	Registers quantity : 1
The value of Compressor's pressure first hi-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-100 ÷ 16000

4.13. Compressor's pressure Hi-limit2 (*prmHighPressLimit2*)

1057 (R/W)	Registers quantity : 1
The value of Compressor's pressure second hi-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-100 ÷ 16000

4.14. Compressor's pressure Lo-limit1 (*prmLowPressLimit1*)

1058 (R/W)	Registers quantity : 1

The value of Compressor's pressure first lo-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-100 ÷ 16000

4.15. Compressor's pressure Lo-limit2 (*prmLowPressLimit2*)

1059 (R/W)	Registers quantity : 1
The value of Compressor's pressure second lo-limit	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-100 ÷ 16000

4.16. Inlet filter's type (*prmFilterInlet_Type*)

1064 (R/W)	Registers quantity : 1
Code of Compressor type	Reg1 Hi-byte: *MSB* Reg1 Lo-byte:

Types

DIGITAL	0	Digital type of filter.
PRESURE	1	Pressure type of filter.
SOFTWARE	2	Software type of filter.
INDEPENDENT	3	Indepent type of filter.

4.17. Outlet filter's type (*prmFilterExhaust_Type*)

1065 (R/W)	Registers quantity : 1
Code of Compressor type	Reg1 Hi-byte: *MSB* Reg1 Lo-byte:

Types

DIGITAL	0	Digital type of filter.
PRESURE	1	Pressure type of filter.
SOFTWARE	2	Software type of filter.
INDEPENDENT	3	Indepent type of filter.

4.18. Setpoint offset for EHD and BAH (*prmEHD_BAH_ZPointOffset*)

1324 (R/W)	Registers quantity : 1
The offset of setting's point for EHD and BAH devices.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 200 (0ºC ÷ 20ºC)

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4.19. Admin password (prmAdminPassword)

1352 (R/W)	Registers quantity : 8
The administrator password string.	Reg1 Hi-byte: Password char Reg1 Lo-byte: Password char Reg2 Hi-byte: Password char Reg2 Lo-byte: Password char Reg3 Hi-byte: Password char Reg3 Lo-byte: Password char Reg4 Hi-byte: Password char Reg4 Lo-byte: Password char Reg5 Hi-byte: Password char Reg5 Lo-byte: Password char Reg6 Hi-byte: Password char Reg6 Lo-byte: Password char Reg7 Hi-byte: Password char Reg7 Lo-byte: Password char Reg8 Hi-byte: Password char Reg8 Lo-byte: Password char

Note: All unused bytes must be filled by 0 (zero) symbol.

4.20. Installer password (prmInstallerPassword)

1360 (R/W)	Registers quantity : 8
The installer password string.	Reg1 Hi-byte: Password char Reg1 Lo-byte: Password char Reg2 Hi-byte: Password char Reg2 Lo-byte: Password char Reg3 Hi-byte: Password char Reg3 Lo-byte: Password char Reg4 Hi-byte: Password char Reg4 Lo-byte: Password char Reg5 Hi-byte: Password char Reg5 Lo-byte: Password char Reg6 Hi-byte: Password char Reg6 Lo-byte: Password char Reg7 Hi-byte: Password char Reg7 Lo-byte: Password char Reg8 Hi-byte: Password char Reg8 Lo-byte: Password char

Note: All unused bytes must be filled by 0 (zero) symbol.

4.21. Super-user password (prmSuperUserPassword)

1368 (R/W)	Registers quantity : 8
The super-user password string.	Reg1 Hi-byte: Password char Reg1 Lo-byte: Password char Reg2 Hi-byte: Password char Reg2 Lo-byte: Password char Reg3 Hi-byte: Password char Reg3 Lo-byte: Password char

Reg4 Hi-byte: Password char	
Reg4 Lo-byte: Password char	
Reg5 Hi-byte: Password char	
Reg5 Lo-byte: Password char	
Reg6 Hi-byte: Password char	
Reg6 Lo-byte: Password char	
Reg7 Hi-byte: Password char	
Reg7 Lo-byte: Password char	
Reg8 Hi-byte: Password char	
Reg8 Lo-byte: Password char	

Note: All unused bytes must be filled by 0 (zero) symbol.

4.22. Compensation's Balance (prmCompBalance)

2792 (R/W)	Registers quantity : 1
The value sets proportion between room's and weather's temperatures.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

4.23. Master sensor (prmMasterSensorID)

2793 (R/W)	Registers quantity : 1
ID of temperature master sensor.	Reg1 Hi-byte: *MSB* Reg1 Lo-byte:

Master sensors ID

MASTER_T3	0	T3 as master sensor.
MASTER_T7	1	T7 as master sensor.
MASTER_TPANEL	2	BD temperature Panel as master sensor.
MASTER_T18	3	T18 as master sensor.

Note: The accessible list of master sensors can differ for various systems.

4.24. Hysteresis zone for T3 master sensor (prmT3DeadBand)

2794 (R/W)	Registers quantity : 1
The hysteresis zone for T3 master sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 100 (0ºC ÷ 10ºC)

4.25. Low fan speed enabling (prmIsLOWSpeed)

2795 (R/W)	Registers quantity : 1
The parameter enables using of possibility of fan's Low speed preset.	Hi-byte: *MSB* Lo-byte:

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| Admissible values | 0 - Disable |
| | 1 - Enable |

4.26. Temperature for enabling of Low fan speed (*prmTempForLOWSpeedShift*)

2796 (R/W)	Registers quantity : 1
The temperature for enabling of low fan speed preset.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 100 (-20ºC ÷ 10ºC)

4.27. Value of Low fan speed preset (*prmLowOutDoorFanSpeed*)

2797 (R/W)	Registers quantity : 1
The value of preset of low fan speed.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 80

4.28. High fan speed enabling (prmIsHighFANSpeedWhenCooling)

2798 (R/W)	Registers quantity : 1
The parameter enables using of fan's High speed preset for cooling mode.	Hi-byte: *MSB* Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.29. Value of Low fan speed preset (*prmHighFANSpeedWhenCooling*)

2799 (R/W)	Registers quantity : 1
The value of preset of High fan speed for cooling mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

4.30. Integration time for VAV fans. (*prmIntegrationTime*)

2812 (R/W)	Registers quantity : 1
The integration time for VAV fans regulation.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (sec.)	0 ÷ 50

4.31. Pressure setpoint for VAV Inlet fan. (*prmInletChannelPress*)

2814 (R/W)	Registers quantity : 1
The setpoint of pressure for calculation of VAV inlet fan speed.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pa)	0 ÷ 2000

4.32. Pressure setpoint for VAV Outlet fan. (*prmExhaustChannelPress*)

2815 (R/W)	Registers quantity : 1
The setpoint of pressure for calculation of VAV outlet fan speed.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pa)	0 ÷ 2000

4.33. Inlet fan modes for Defrosting (*prmDefrostFanMode*)

2816 (R/W)	Registers quantity : 1
ID of fan's modes for defrosting mode.	Reg1 Hi-byte: *MSB* Reg1 Lo-byte:

Master sensors ID

FAN_MODE_OFF	0	The fan switches off.
FAN_MODE_FREE	1	The fan works free.
FAN_MODE_PRESET	2	The fan sets the preset value.

4.34. Min. Off-time of Compressor (*prmComprMinOffTime*)

2817 (R/W)	Registers quantity : 1
The minimal Off-time for compressor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	0 ÷ 15

4.35. BAH damper Hold timeout (*prmBAH_Damper_hold_timeout*)

2819 (R/W)	Registers quantity : 1
The time (hours) hold BAH in work.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (h)	1 - 24

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4.36. BAH damper Stabilization time (prmBAH_Temperature_Stabilization_Period)

2820 (R/W)	Registers quantity : 1
The time (minutes) of BAH stabilization period.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	1 - 60

4.37. Run-day for DHW Anti-Legionalla procedure (prmLegionellaRunDay)

2823 (R/W)	Registers quantity : 1
The day of month in which are starting the Anti-Legionalla procedure for DHW.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (day)	1 - 28

4.38. Run-day for Solar Anti-Legionalla procedure (prmSolar_LegionellaRunDay)

2824 (R/W)	Registers quantity : 1
The day of month in which are starting the Anti-Legionalla procedure for Solar.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (day)	1 - 28

4.39. Min. Start to Start time of Compressor (prmComprStart2StartMinTime)

2825 (R/W)	Registers quantity : 1
The minimal Start to Start time for compressor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	3 ÷ 60

4.40. Block signals (prmBlockSignalType)

2827 (R/W)	Registers quantity : 1
ID of selected block mode.	Reg1 Hi-byte: *MSB* Reg1 Lo-byte:

Block mode ID

BLOCK_NONE	0	Any regulation modes aren't blocked.
BLOCK_HEAT	1	Heating regulation modes is blocked.
BLOCK_COOL	2	Cooling regulation modes is blocked.

4.41. Allow Heating offset of setpoint (*prmAllowHeatOffset*)

2829 (R/W)	Registers quantity : 1
The offset of setpoint for heating allow.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-50 ÷ 50 (-5ºC ÷ 5ºC)

4.42. Max. of Buffer temperature (*prmBufferMaxTemp*)

2830 (R/W)	Registers quantity : 1
The maximal allowed temperature for Buffer tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	200 ÷ 580 (20ºC ÷ 58ºC)

4.43. Min. of Buffer temperature (*prmBufferMinTemp*)

2831 (R/W)	Registers quantity : 1
The minimal allowed temperature for Buffer tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	200 ÷ 580 (20ºC ÷ 58ºC)

4.44. Force validation for Super-User account (*isValidation4SUser*)

3144 (R/W)	Registers quantity : 1
The parameter switches security levels for Super-User account.	Hi-byte: *MSB* Lo-byte:
Admissible values	0 - Disable (no validation) 1 - Enable (force validation)

4.45. User password reset enabling (*prmEnaUserPassReset*)

3145 (R/W)	Registers quantity : 1
The parameter enables the user password reset.	Hi-byte: *MSB* Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.46. Type of Pressure sensor 1. (*prmPressSens1_Type*)

3153 (R/W)	Registers quantity : 1
ID of pressure sensor type.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Pressure sensor types ID

DPRESS_INTERNAL	0	The internal pressure sensor's type.(Pascal)
DPRESS_EXT_PASKAL	1	The external pressure sensor's type.(Pascal)
DPRESS_EXT_BAR	2	The external pressure sensor's type.(BAR)

4.47. Type of Pressure sensor 2. (prmPressSens2_Type)

| 3154 (R/W) | Registers quantity : 1 |
| ID of pressure sensor type. | Reg1 Hi-byte: MSB
Reg1 Lo-byte: |

4.48. Type of Pressure sensor 3. (prmPressSens3_Type)

| 3155 (R/W) | Registers quantity : 1 |
| ID of pressure sensor type. | Reg1 Hi-byte: MSB
Reg1 Lo-byte: |

4.49. Type of Pressure sensor 4. (prmPressSens4_Type)

| 3156 (R/W) | Registers quantity : 1 |
| ID of pressure sensor type. | Reg1 Hi-byte: MSB
Reg1 Lo-byte: |

4.50. Type of Pressure sensor 5. (prmPressSens5_Type)

| 3157 (R/W) | Registers quantity : 1 |
| ID of pressure sensor type. | Reg1 Hi-byte: MSB
Reg1 Lo-byte: |

4.51. Type of Pressure sensor 6. (prmPressSens6_Type)

| 3158 (R/W) | Registers quantity : 1 |
| ID of pressure sensor type. | Reg1 Hi-byte: MSB
Reg1 Lo-byte: |

4.52. Type of Pressure sensor 7. (prmPressSens7_Type)

| 3159 (R/W) | Registers quantity : 1 |
| ID of pressure sensor type. | Reg1 Hi-byte: MSB
Reg1 Lo-byte: |

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4.53. Type of Pressure sensor 8. (prmPressSens8_Type)

3160 (R/W)	Registers quantity : 1
ID of pressure sensor type.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

4.54. Type of Pressure sensor 9. (prmPressSens9_Type)

3161 (R/W)	Registers quantity : 1
ID of pressure sensor type.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

4.55. Type of Pressure sensor 10. (prmPressSens10_Type)

3162 (R/W)	Registers quantity : 1
ID of pressure sensor type.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

4.56. Type of Pressure sensor 11. (prmPressSens11_Type)

3163 (R/W)	Registers quantity : 1
ID of pressure sensor type.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

4.57. Type of Pressure sensor 12. (prmPressSens12_Type)

3164 (R/W)	Registers quantity : 1
ID of pressure sensor type.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

4.58. Value of Pressure (Bar) 1 for 0 Volt signal (prmPressSens1_Bar_In_0Volt)

3189 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.59. Value of Pressure (Bar) 2 for 0 Volt signal (prmPressSens2_Bar_In_0Volt)

3190 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.60. Value of Pressure (Bar) 3 for 0 Volt signal (prmPressSens3_Bar_In_0Volt)

3191 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.61. Value of Pressure (Bar) 4 for 0 Volt signal (prmPressSens4_Bar_In_0Volt)

3192 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.62. Value of Pressure (Bar) 5 for 0 Volt signal (prmPressSens5_Bar_In_0Volt)

3193 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.63. Value of Pressure (Bar) 6 for 0 Volt signal (prmPressSens6_Bar_In_0Volt)

3194 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.64. Value of Pressure (Bar) 7 for 0 Volt signal (prmPressSens7_Bar_In_0Volt)

3195 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.65. Value of Pressure (Bar) 8 for 0 Volt signal (prmPressSens8_Bar_In_0Volt)

3196 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.66. Value of Pressure (Bar) 9 for 0 Volt signal (*prmPressSens9_Bar_In_0Volt*)

3197 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.67. Value of Pressure (Bar) 10 for 0 Volt signal (*prmPressSens10_Bar_In_0Volt*)

3198 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.68. Value of Pressure (Bar) 11 for 0 Volt signal (*prmPressSens11_Bar_In_0Volt*)

3199 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 11.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.69. Value of Pressure (Bar) 12 for 0 Volt signal (*prmPressSens12_Bar_In_0Volt*)

3200 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 12.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.70. Value of Pressure (Bar)1 for 10 Volt signal (*prmPressSens1_Bar_In_10Volt*)

3201 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.71. Value of Pressure (Bar)2 for 10 Volt signal (*prmPressSens2_Bar_In_10Volt*)

3202 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.72. Value of Pressure (Bar)3 for 10 Volt signal (*prmPressSens3_Bar_In_10Volt*)

3203 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.73. Value of Pressure (Bar)4 for 10 Volt signal (*prmPressSens4_Bar_In_10Volt*)

3204 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.74. Value of Pressure (Bar)5 for 10 Volt signal (*prmPressSens5_Bar_In_10Volt*)

3205 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.75. Value of Pressure (Bar)6 for 10 Volt signal (*prmPressSens6_Bar_In_10Volt*)

3206 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.76. Value of Pressure (Bar)7 for 10 Volt signal (*prmPressSens7_Bar_In_10Volt*)

3207 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.77. Value of Pressure (Bar)8 for 10 Volt signal (*prmPressSens8_Bar_In_10Volt*)

3208 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.78. Value of Pressure (Bar)9 for 10 Volt signal (*prmPressSens9_Bar_In_10Volt*)

3209 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.79. Value of Pressure(Bar)10 for 10 Volt signal(*prmPressSens10_Bar_In_10Volt*)

3210 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.80. Value of Pressure(Bar)11 for 10 Volt signal(*prmPressSens11_Bar_In_10Volt*)

3211 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 11.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.81. Value of Pressure(Bar)12 for 10 Volt signal(*prmPressSens12_Bar_In_10Volt*)

3212 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 12.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Bar)	-100 ÷ 16000

4.82. Value of Pressure (Pas) 1 for 0 Volt signal (*prmPressSens1_Pascal_In_0Volt*)

3213 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

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4.83. Value of Pressure (Pas) 2 for 0 Volt signal

(*prmPressSens2_Pascal_In_0Volt*)

3214 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.84. Value of Pressure (Pas) 3 for 0 Volt signal

(*prmPressSens3_Pascal_In_0Volt*)

3215 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.85. Value of Pressure (Pas) 4 for 0 Volt signal

(*prmPressSens4_Pascal_In_0Volt*)

3216 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.86. Value of Pressure (Pas) 5 for 0 Volt signal

(*prmPressSens5_Pascal_In_0Volt*)

3217 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.87. Value of Pressure (Pas) 6 for 0 Volt signal

(*prmPressSens6_Pascal_In_0Volt*)

3218 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.88. Value of Pressure (Pas) 7 for 0 Volt signal

(*prmPressSens7_Pascal_In_0Volt*)

3219 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.89. Value of Pressure (Pas) 8 for 0 Volt signal

(*prmPressSens8_Pascal_In_0Volt*)

3220 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.90. Value of Pressure (Pas) 9 for 0 Volt signal

(*prmPressSens9_Pascal_In_0Volt*)

3221 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.91. Value of Pressure (Pas) 10 for 0 Volt signal

(*prmPressSens10_Pascal_In_0Volt*)

3222 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.92. Value of Pressure (Pas) 11 for 0 Volt signal

(*prmPressSens11_Pascal_In_0Volt*)

3223 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 11.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

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4.93. Value of Pressure (Pas) 12 for 0 Volt signal

(*prmPressSens12_Pascal_In_0Volt*)

3224 (R/W)	Registers quantity : 1
The value of pressure at 0 Volt for input pressure sensor 12.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.94. Value of Pressure (Pas)1 for 10 Volt signal

(*prmPressSens1_Pascal_In_10Volt*)

3225 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.95. Value of Pressure (Pas)2 for 10 Volt signal

(*prmPressSens2_Pascal_In_10Volt*)

3226 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.96. Value of Pressure (Pas)3 for 10 Volt signal

(*prmPressSens3_Pascal_In_10Volt*)

3227 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.97. Value of Pressure (Pas)4 for 10 Volt signal

(*prmPressSens4_Pascal_In_10Volt*)

3228 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

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4.98. Value of Pressure (Pas)5 for 10 Volt signal

(*prmPressSens5_Pascal_In_10Volt*)

3229 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.99. Value of Pressure (Pas)6 for 10 Volt signal

(*prmPressSens6_Pascal_In_10Volt*)

3230 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.100. Value of Pressure (Pas)7 for 10 Volt signal

(*prmPressSens7_Pascal_In_10Volt*)

3231 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.101. Value of Pressure (Pas)8 for 10 Volt signal

(*prmPressSens8_Pascal_In_10Volt*)

3232 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.102. Value of Pressure (Pas)9 for 10 Volt signal

(*prmPressSens9_Pascal_In_10Volt*)

3233 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.103. Value of Pressure(Pas)10 for 10 Volt signal(*prmPressSens10_Pascal_In_10Volt*)

3234 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.104. Value of Pressure(Pas)11 for 10 Volt signal(*prmPressSens11_Pascal_In_10Volt*)

3235 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 11.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.105. Value of Pressure(Pas)12 for 10 Volt signal(*prmPressSens12_Pascal_In_10Volt*)

3236 (R/W)	Registers quantity : 1
The value of pressure at 10 Volt for input pressure sensor 12.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas)	0 ÷ 3000

4.106. Allow the user to Stop system (*prmIsAllowUserOpt2Stop*)

3256 (R/W)	Registers quantity : 1
The enable or disable the user's possibility to Stop system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.107. Min. temperature for Brine flow. (*prmBrineMinTemp*)

3258 (R/W)	Registers quantity : 1
The minimal value of Brine temperature.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-300 ÷ 50 (-30ºC ÷ 5ºC)

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4.108. Low threshold of Humidity. (*prmHumidityLowThreshold*)

3265 (R/W)	Registers quantity : 1
The low threshold of humidity values.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	15 ÷ 45

4.109. Fan speed for Low Humidity. (*prmLowHumidityFanSpeed*)

3266 (R/W)	Registers quantity : 1
The value of fan speed for low humidity value.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 80

4.110. Fan speed for High Humidity. (*prmHighHumidityFanSpeed*)

3267 (R/W)	Registers quantity : 1
The value of fan speed for high humidity value.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	30 ÷ 100

4.111. Temperature when Defrosting will be stopped. (*prmTDefrostStop*)

3271 (R/W)	Registers quantity : 1
It is temperature when it will be achieved the Defrosting will be stopped.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	20 ÷ 120 (2ºC ÷ 12ºC)

4.112. Fan speed for Defrosting mode. (*prmDefrostFanSpeed*)

3272 (R/W)	Registers quantity : 1
The value of fan speed for defrosting mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

4.113. Max. Defrosting time (*prmMaxDefrostTime*)

3273 (R/W)	Registers quantity : 1
The maximal time while the Defrosting mode can work.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	10 ÷ 720

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4.114.   Min. temperature when Defrosting can prepare (*prmTMinOutForDefrost*)

3274 (R/W)	Registers quantity : 1
The minimal limit of temperature when system cans work in Defrosting Prepare Mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-100 ÷ 100 (-10ºC ÷ 10ºC)

4.115.   Min. Defrosting pause time (*prmMinDefrostingPause*)

3275 (R/W)	Registers quantity : 1
The minimal time of Defrosting pause.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	15 ÷ 720

4.116.   Regulation hysteresis zone (*prmRegulation_Dead_band*)

3276 (R/W)	Registers quantity : 1
The value of regulation hysteresis value.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 100 (0ºC ÷ 10ºC)

4.117.   Bypass damper position for Defrosting. (*prmDefrostFanSpeed*)

3277 (R/W)	Registers quantity : 1
The predefined position of Bypass damper if Defrosting mode is active.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

4.118.   Min. CO^2 level. (*prmMinCO2Level*)

3278 (R/W)	Registers quantity : 1
The minimal accessible level of CO^2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	400 ÷ 2000

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4.119.   Max. CO^2 level. (*prmMaxCO2Level*)

3279 (R/W)	Registers quantity : 1
The maximal accessible level of CO^2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	400 ÷ 2000

4.120.   Fan speed for min. CO^2 level. (*prmMinCO2LvlFanSpeed*)

3280 (R/W)	Registers quantity : 1
The value of fan speed for minimal level of CO^2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 90

4.121.   Fan speed for max. CO^2 level. (*prmMaxCO2LvlFanSpeed*)

3281 (R/W)	Registers quantity : 1
The value of fan speed for maximal level of CO^2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	30 ÷ 100

4.122.   Buffer tank Electric heater waiting time. (*prmBufTankEHeatWait*)

3282 (R/W)	Registers quantity : 1
The time of pause before the electric heater of Buffer tank will be switched on.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	0 ÷ 60

4.123.   Defrosting Ice level. (*prmDefrostingIceLevel*)

3283 (R/W)	Registers quantity : 1
The temperature limit of Ice level for Defrosting mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-1000 ÷ 1000 (-100ºC ÷ 100ºC)

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4.124. Cooling is present in JVP (*prmJVP_CoolingPresent*)

3284 (R/W)	Registers quantity : 1
The enabling of cooling mode for JVP system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.125. Night setback setpoint offset. (*prmNight_setback_Zpoint_offset*)

3413 (R/W)	Registers quantity : 1
The offset value for night setback setpoint.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 200 (0ºC ÷ 20ºC)

4.126. EH Damper holding time. (*prmEH_Damper_hold_timeout*)

3415 (R/W)	Registers quantity : 1
The time of holding period of EHD.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (h)	1 ÷ 24

4.127. EH Damper stabilization period. (prmEH_Temperature_Stabilization_Period)

3416 (R/W)	Registers quantity : 1
The time of stabilization period of EHD.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	1 ÷ 60

4.128. CAV Fan offset. (*CAV_Fan_Offset*)

3422 (R/W)	Registers quantity : 1
The offset value between speed of Inlet and Outlet CAV fans.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	-25 ÷ 25

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4.129. Temperature sensor 1 offset. (*prmTempSensor1_Offset*)

3619 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.130. Temperature sensor 2 offset. (*prmTempSensor2_Offset*)

3620 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.131. Temperature sensor 3 offset. (*prmTempSensor3_Offset*)

3621 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.132. Temperature sensor 4 offset. (*prmTempSensor4_Offset*)

3622 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.133. Temperature sensor 5 offset. (*prmTempSensor5_Offset*)

3623 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.134. Temperature sensor 6 offset. (*prmTempSensor6_Offset*)

3624 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

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4.135. Temperature sensor 7 offset. (*prmTempSensor7_Offset*)

3625 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.136. Temperature sensor 8 offset. (*prmTempSensor8_Offset*)

3626 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.137. Temperature sensor 9 offset. (*prmTempSensor9_Offset*)

3627 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.138. Temperature sensor 10 offset. (*prmTempSensor10_Offset*)

3628 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.139. Temperature sensor 11 offset. (*prmTempSensor11_Offset*)

3629 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 11.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.140. Temperature sensor 12 offset. (*prmTempSensor12_Offset*)

3630 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 12.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.141.   Temperature sensor 13 offset. (*prmTempSensor13_Offset*)

3631 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 13.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.142.   Temperature sensor 14 offset. (*prmTempSensor14_Offset*)

3632 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 14.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.143.   Temperature sensor 15 offset. (*prmTempSensor15_Offset*)

3633 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 15.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.144.   Temperature sensor 16 offset. (*prmTempSensor16_Offset*)

3634 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 16.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.145.   Temperature sensor 17 offset. (*prmTempSensor17_Offset*)

3635 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 17.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.146.   Temperature sensor 18 offset. (*prmTempSensor18_Offset*)

3636 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 18.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

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4.147.　Temperature sensor 19 offset. (*prmTempSensor19_Offset*)

3637 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 19.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.148.　Temperature sensor 20 offset. (*prmTempSensor20_Offset*)

3638 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 20.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.149.　Temperature sensor 21 offset. (*prmTempSensor21_Offset*)

3639 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 21.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.150.　Temperature sensor 22 offset. (*prmTempSensor22_Offset*)

3640 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 22.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.151.　Temperature sensor 23 offset. (*prmTempSensor23_Offset*)

3641 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 23.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.152.　Temperature sensor 24 offset. (*prmTempSensor24_Offset*)

3642 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 24.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

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4.153. Temperature sensor 25 offset. (prmTempSensor25_Offset)

3643 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 25.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.154. Temperature sensor 26 offset. (prmTempSensor26_Offset)

3644 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 26.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.155. Temperature sensor 27 offset. (prmTempSensor27_Offset)

3645 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 27.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.156. Temperature sensor 28 offset. (prmTempSensor28_Offset)

3646 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 28.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.157. Temperature sensor 29 offset. (prmTempSensor29_Offset)

3647 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 29.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.158. Temperature sensor 30 offset. (prmTempSensor30_Offset)

3648 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 30.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

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4.159. Temperature sensor 31 offset. (*prmTempSensor31_Offset*)

3649 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 31.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.160. Temperature sensor 32 offset. (*prmTempSensor32_Offset*)

3650 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 32.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.161. Temperature sensor 33 offset. (*prmTempSensor33_Offset*)

3651 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 33.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.162. Temperature sensor 34 offset. (*prmTempSensor34_Offset*)

3652 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 34.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.163. Temperature sensor 35 offset. (*prmTempSensor35_Offset*)

3653 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 35.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.164. Temperature sensor 36 offset. (*prmTempSensor36_Offset*)

3654 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 36.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.165. Temperature sensor 37 offset. (*prmTempSensor37_Offset*)

3655 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 37.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.166. Temperature sensor 38 offset. (*prmTempSensor38_Offset*)

3656 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 38.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.167. Temperature sensor 39 offset. (*prmTempSensor39_Offset*)

3657 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 39.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.168. Temperature sensor 40 offset. (*prmTempSensor40_Offset*)

3658 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 40.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.169. Temperature sensor 41 offset. (*prmTempSensor41_Offset*)

3659 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 41.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.170. Temperature sensor 42 offset. (*prmTempSensor42_Offset*)

3660 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 42.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

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4.171. Temperature sensor 43 offset. (*prmTempSensor43_Offset*)

3661 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 43.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.172. Temperature sensor 44 offset. (*prmTempSensor44_Offset*)

3662 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 44.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.173. Temperature sensor 45 offset. (*prmTempSensor45_Offset*)

3663 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 45.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.174. Temperature sensor 46 offset. (*prmTempSensor46_Offset*)

3664 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 46.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.175. Temperature sensor 47 offset. (*prmTempSensor47_Offset*)

3665 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 47.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.176. Temperature sensor 48 offset. (*prmTempSensor48_Offset*)

3666 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 48.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

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4.177. Temperature sensor 49 offset. (*prmTempSensor49_Offset*)

3667 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 49.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.178. Temperature sensor 50 offset. (*prmTempSensor50_Offset*)

3668 (R/W)	Registers quantity : 1
The offset of final value of temperature sensor 50.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 200 (-20ºC ÷ 20ºC)

4.179. Night mode Fan speed. (*NIGHT_MODE_FAN_SPEED*)

3902 (R/W)	Registers quantity : 1
The predefined speed of Fan for night mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

4.180. Min. Defrosting time. (*prmMinDefrostTime*)

3903 (R/W)	Registers quantity : 1
The minimal time for working in Defrosting mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	1 ÷ 720

4.181. EK heating delay. (*prmEK_HeatDelay*)

3913 (R/W)	Registers quantity : 1
The minimal of heating delay for EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	0 ÷ 30

4.182. EK min. Temperature supply limit. (*prmEK_MinSetpoint*)

3914 (R/W)	Registers quantity : 1
The minimal temperature limit for EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 600 (5ºC ÷ 60ºC)

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4.183. EK max. Temperature supply limit. (*prmEK_MaxSetpoint*)

3915 (R/W)	Registers quantity : 1
The maximal temperature limit for EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 850 (5ºC ÷ 85ºC)

4.184. EK outdoor temperature compensation. (*prmEK_OutdCompensEnable*)

3916 (R/W)	Registers quantity : 1
The enable/disable outdoor temperature compensation of EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.185. EK outdoor compensation offset. (*prmEK_OutdCompensOffset*)

3917 (R/W)	Registers quantity : 1
The offset of outdoor temperature compensation of EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-150 ÷ 150 (-15ºC ÷ 15ºC)

4.186. EK outdoor compensation Graph ID. (*prmEK_OutdCompensGNum*)

3918 (R/W)	Registers quantity : 1
The ID of compensation Graph for outdoor temperature compensation of EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	1 ÷ 10

4.187. EK hysteresis value. (*prmEK_TempOffset*)

3919 (R/W)	Registers quantity : 1
The hysteresis of EK system regulation.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	20 ÷ 100 (2ºC ÷ 10ºC)

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4.188. EK Pump force. (*prmEK_ForcedPump*)

3920 (R/W)	Registers quantity : 1
The enable/ disable to force pump for EK system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.189. Solar min. DHW supply limit. (*prmSOLAR_MinDHWTemp*)

3928 (R/W)	Registers quantity : 1
The minimal temperature limit for DHW of Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 850 (5ºC ÷ 85ºC)

4.190. Solar setpoint of DHW. (*prmSOLAR_SetpointDHW*)

3929 (R/W)	Registers quantity : 1
The temperature setpoint for DHW of Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	100 ÷ 650 (10ºC ÷ 65ºC)

4.191. Solar setpoint of Buffer tank. (*prmSOLAR_SetpointBuffer*)

3930 (R/W)	Registers quantity : 1
The temperature setpoint for Buffer tank of Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	100 ÷ 1000 (10ºC ÷ 100ºC)

4.192. Solar sample period. (*prmSOLAR_SamplePeriod*)

3931 (R/W)	Registers quantity : 1
The sample period of time for Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (h)	0 ÷ 10 0 - All day continuously .

4.193. Solar delay period. (*prmSOLAR_SampleDelay*)

3932 (R/W)	Registers quantity : 1
The delay period for Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	1 ÷ 30

4.194. Anti-Legionella mode for Solar. (*prmSOLAR_LegionMode*)

3933 (R/W)	Registers quantity : 1
The mode of Anti-Legionella for DHW tank of Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Modes

LEGIONELLA_OFF	0	Anti-Legionella functionality is disable.
LEGIONELLA_WEEKLY	1	Anti-Legionella functionality is executed weekly.
LEGIONELLA_MONTHLY	2	Anti-Legionella functionality is executed monthly.

4.195. Start Hour of Anti-Legionella mode for Solar. (*prmSOLAR_LegionHour*)

3934 (R/W)	Registers quantity : 1
The start hour of Anti-Legionella mode for DHW tank of Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (h)	0 ÷ 23

4.196. Air damper delay. (*prmAirDampherDelay*)

3936 (R/W)	Registers quantity : 1
The minimal temperature limit for DHW.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (sec)	3 ÷ 240

4.197. DHW heater enable. (*prmDHW_HeaterEnable*)

3938 (R/W)	Registers quantity : 1
The enable/ disable the electric heater for DHW tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.198. DHW heater enable for Solar. (*prmDHW_Solar_HeaterEnable*)

3940 (R/W)	Registers quantity : 1
The enable/ disable the electric heater for DHW tank of Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

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4.199. Anti-Legionella mode. (*prmLegionMode*)

3941 (R/W)	Registers quantity : 1
The mode of Anti-Legionella for DHW tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Modes

LEGIONELLA_OFF	0	Anti-Legionella functionality is disable.
LEGIONELLA_WEEKLY	1	Anti-Legionella functionality is executed weekly.
LEGIONELLA_MONTHLY	2	Anti-Legionella functionality is executed monthly.

4.200. Start Hour of Anti-Legionella mode. (*prmLegionHour*)

3942 (R/W)	Registers quantity : 1
The start hour of Anti-Legionella mode for DHW tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (h)	0 ÷ 23

4.201. Setpoint offset for Cooling mode. (*prmCoolZPointOffset*)

3943 (R/W)	Registers quantity : 1
The offset of temperature setpoint for Cooling mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 200 (0ºC ÷ 20ºC)

4.202. Setpoint offset for Bypass Damper (*prmBypassDamperZPointOffset*)

3945 (R/W)	Registers quantity : 1
The setpoint offset for Bypass Damper.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 200 (0ºC ÷ 20ºC)

4.203. Evaporator max. defrosting time. (*prmMaxEvapDefrostTime*)

3946 (R/W)	Registers quantity : 1
The maximal time of defrosting process.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	1 ÷ 15

4.204. PreHeater Off-time pause. (*prmPreHeater_OffPause*)

3947 (R/W)	Registers quantity : 1
The Off-time pause for PreHeater device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	0 ÷ 60

4.205. PreHeater setpoint. (*prmPreHeater_SetPoint*)

3948 (R/W)	Registers quantity : 1
The setpoint of PreHeated device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-200 ÷ 20 (-20ºC ÷ 2ºC)

4.206. Brine pressure checking enable. (*prmIsBrinePressureCheck*)

3952 (R/W)	Registers quantity : 1
The enable/ disable the checking of Brine pressure value.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.207. Compressor's envelop enable (*prmCompressorEnvelopEnable*)

4086 (R/W)	Registers quantity : 1
Enabling of correction graph using for compressor's control calculation.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.208. Fan's work mode. (*FANWorkMode*)

4087 (R/W)	Registers quantity : 1
The ID of fan's work mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Fan modes

ENERGY_AIR_SHIFT	0	Air energy shift mode (depends from T5 value).
COMFORT_W	1	Without work of Fans.
BALANCED	2	Standard mode.

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4.209. T5 min. supply limit. (*EAS_Fan_T5_Min*)

4088 (R/W)	Registers quantity : 1
The minimal T5 supply limit for Energy Air shift mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 500 (0ºC ÷ 50ºC)

4.210. T5 max. supply limit. (*EAS_Fan_T5_Max*)

4089 (R/W)	Registers quantity : 1
The maximal T5 supply limit for Energy Air shift mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	200 ÷ 600 (20ºC ÷ 60ºC)

4.211. Compressor out door low limit. (*prmLowOutdoorLimit*)

4090 (R/W)	Registers quantity : 1
The compressor low out door temperature limit.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-2000 ÷ 2000 (-200ºC ÷ 200ºC)

4.212. Buffer tank heater enable. (*prmTank_HeaterEnable*)

4091 (R/W)	Registers quantity : 1
The enable/ disable the electric heater of Buffer tank tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

4.213. The substitution T8 enable. (*prmSubstituteT8T7Enable*)

4234 (R/W)	Registers quantity : 1
Enabling of substitution value of T8, T7 temperature sensor by T1 sensor's value.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Sacrificial anode states.

ALL_DISABLE	0	All substitutions disabled.
T7_ENABLE	1	T7 temperature sensor substitution enable.
T8_ENABLE	2	T8 temperature sensor substitution enable.
ALL_ENABLE	3	All substitutions enabled.

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4.214. Average value of Humidity sensor. (*VAL_AVERAGE_RH_SENSOR*)

4717 (R/W)	Registers quantity : 1
The average value of Humidity sensor device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

4.215. Anti-Legionella mode force for Solar. (*prmSolar_LegionellaForce*)

5075 (R/W)	Registers quantity : 1
The force start of Anti-Legionella function for Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - None 1 - Force

4.216. Defrosting mode force. (*prmDefrostForce*)

5076 (R/W)	Registers quantity : 1
The force start of Defrosting mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - None 1 - Force

4.217. Temperature sensor 1 state. (*prmTempSensor1_State*)

5212 (R)	Registers quantity : 1
The state of temperature sensor of T1 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

States of Temperature sensors.

STATE_OK	0	Sensor works correctly.
STATE_SHUNTED	1	Sensor shunted.
STATE_DISCONNECT	2	Sensor disconnected.
STATE_INVALID	3	Invalid data of sensor.

4.218. Temperature sensor 2 state. (*prmTempSensor2_State*)

5213 (R)	Registers quantity : 1
The state of temperature sensor of T2 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

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4.219. Temperature sensor 3 state. (prmTempSensor3_State)

5214 (R)	Registers quantity : 1
The state of temperature sensor of T3 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.220. Temperature sensor 4 state. (prmTempSensor4_State)

5215 (R)	Registers quantity : 1
The state of temperature sensor of T4 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.221. Temperature sensor 5 state. (prmTempSensor5_State)

5216 (R)	Registers quantity : 1
The state of temperature sensor of T5 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.222. Temperature sensor 6 state. (prmTempSensor6_State)

5217 (R)	Registers quantity : 1
The state of temperature sensor of T6 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.223. Temperature sensor 7 state. (prmTempSensor7_State)

5218 (R)	Registers quantity : 1
The state of temperature sensor of T7 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

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4.224. Temperature sensor 8 state. (*prmTempSensor8_State*)

5219 (R)	Registers quantity : 1
The state of temperature sensor of T8 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.225. Temperature sensor 9 state. (*prmTempSensor9_State*)

5220 (R)	Registers quantity : 1
The state of temperature sensor of T9 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.226. Temperature sensor 10 state. (*prmTempSensor10_State*)

5221 (R)	Registers quantity : 1
The state of temperature sensor of T10 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.227. Temperature sensor 11 state. (*prmTempSensor11_State*)

5222 (R)	Registers quantity : 1
The state of temperature sensor of T11 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.228. Temperature sensor 12 state. (*prmTempSensor12_State*)

5223 (R)	Registers quantity : 1
The state of temperature sensor of T12 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

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4.229. Temperature sensor 13 state. (*prmTempSensor13_State*)

5224 (R)	Registers quantity : 1
The state of temperature sensor of T13 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.230. Temperature sensor 14 state. (*prmTempSensor14_State*)

5225 (R)	Registers quantity : 1
The state of temperature sensor of T14 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.231. Temperature sensor 15 state. (*prmTempSensor15_State*)

5226 (R)	Registers quantity : 1
The state of temperature sensor of T15 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.232. Temperature sensor 16 state. (*prmTempSensor16_State*)

5227 (R)	Registers quantity : 1
The state of temperature sensor of T16 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.233. Temperature sensor 17 state. (*prmTempSensor17_State*)

5228 (R)	Registers quantity : 1
The state of temperature sensor of T17 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

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4.234. Temperature sensor 18 state. (*prmTempSensor18_State*)

5229 (R)	Registers quantity : 1
The state of temperature sensor of T18 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.235. Temperature sensor 19 state. (*prmTempSensor19_State*)

5230 (R)	Registers quantity : 1
The state of temperature sensor of T19 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.236. Temperature sensor 20 state. (*prmTempSen20_State*)

5231 (R)	Registers quantity : 1
The state of temperature sensor of T20 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.237. Temperature sensor 21 state. (*prmTempSen21_State*)

5232 (R)	Registers quantity : 1
The state of temperature sensor of T21 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.238. Temperature sensor 22 state. (*prmTempSen22_State*)

5233 (R)	Registers quantity : 1
The state of temperature sensor of T22 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

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4.239. Temperature sensor 23 state. (*prmTempSen23_State*)

5234 (R)	Registers quantity : 1
The state of temperature sensor of T23 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.240. Temperature sensor 24 state. (*prmTempSen24_State*)

5235 (R)	Registers quantity : 1
The state of temperature sensor of T24 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.241. Temperature sensor 25 state. (*prmTempSen25_State*)

5236 (R)	Registers quantity : 1
The state of temperature sensor of T25 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.242. Temperature sensor 26 state. (*prmTempSen26_State*)

5237 (R)	Registers quantity : 1
The state of temperature sensor of T26 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.243. Temperature sensor 27 state. (*prmTempSen27_State*)

5238 (R)	Registers quantity : 1
The state of temperature sensor of T27 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.244.   Temperature sensor 28 state. (*prmTempSen28_State*)

5239 (R)	Registers quantity : 1
The state of temperature sensor of T28 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.245.   Temperature sensor 29 state. (*prmTempSen29_State*)

5240 (R)	Registers quantity : 1
The state of temperature sensor of T29 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.246.   Temperature sensor 30 state. (*prmTempSen30_State*)

5241 (R)	Registers quantity : 1
The state of temperature sensor of T30 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.247.   Temperature sensor 31 state. (*prmTempSen31_State*)

5242 (R)	Registers quantity : 1
The state of temperature sensor of T31 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.248.   Temperature sensor 32 state. (*prmTempSen32_State*)

5243 (R)	Registers quantity : 1
The state of temperature sensor of T32 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

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4.249. Temperature sensor 33 state. (*prmTempSen33_State*)

5244 (R)	Registers quantity : 1
The state of temperature sensor of T33 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.250. Temperature sensor 34 state. (*prmTempSen34_State*)

5244 (R)	Registers quantity : 1
The state of temperature sensor of T34 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.251. Temperature sensor 35 state. (*prmTempSen35_State*)

5246 (R)	Registers quantity : 1
The state of temperature sensor of T35 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.252. Temperature sensor 36 state. (*prmTempSen36_State*)

5247 (R)	Registers quantity : 1
The state of temperature sensor of T36 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.253. Temperature sensor 37 state. (*prmTempSen37_State*)

5248 (R)	Registers quantity : 1
The state of temperature sensor of T37 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.254. Temperature sensor 38 state. (*prmTempSen38_State*)

5249 (R)	Registers quantity : 1
The state of temperature sensor of T38 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.255. Temperature sensor 39 state. (*prmTempSen39_State*)

5250 (R)	Registers quantity : 1
The state of temperature sensor of T39 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.256. Temperature sensor 40 state. (*prmTempSen40_State*)

5251 (R)	Registers quantity : 1
The state of temperature sensor of T40 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.257. Temperature sensor 41 state. (*prmTempSen41_State*)

5252 (R)	Registers quantity : 1
The state of temperature sensor of T41 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.258. Temperature sensor 42 state. (*prmTempSen42_State*)

5253 (R)	Registers quantity : 1
The state of temperature sensor of T42 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.259. Temperature sensor 43 state. (*prmTempSen43_State*)

5254 (R)	Registers quantity : 1
The state of temperature sensor of T43 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.260. Temperature sensor 44 state. (*prmTempSen44_State*)

5255 (R)	Registers quantity : 1
The state of temperature sensor of T44 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.261. Temperature sensor 45 state. (*prmTempSen45_State*)

5256 (R)	Registers quantity : 1
The state of temperature sensor of T45 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.262. Temperature sensor 46 state. (*prmTempSen46_State*)

5257 (R)	Registers quantity : 1
The state of temperature sensor of T46 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.263. Temperature sensor 47 state. (*prmTempSen47_State*)

5258 (R)	Registers quantity : 1
The state of temperature sensor of T47 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.264. Temperature sensor 48 state. (*prmTempSen48_State*)

5259 (R)	Registers quantity : 1
The state of temperature sensor of T48 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.265. Temperature sensor 49 state. (*prmTempSen49_State*)

5260 (R)	Registers quantity : 1
The state of temperature sensor of T49 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.266. Temperature sensor 50 state. (*prmTempSen50_State*)

5261 (R)	Registers quantity : 1
The state of temperature sensor of T50 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	States of Temperature sensors (from description of Register 4779).

4.267. Authentication registers

All registers of group are Write-Only and must be preset by one "Preset Multiple Registers" Modbus function.

7777 (W)	Registers quantity : 8
The authentication string registers.	Reg1 Hi-byte: Password char Reg1 Lo-byte: Password char Reg2 Hi-byte: Password char Reg2 Lo-byte: Password char Reg3 Hi-byte: Password char Reg3 Lo-byte: Password char Reg4 Hi-byte: Password char Reg4 Lo-byte: Password char Reg5 Hi-byte: Password char Reg5 Lo-byte: Password char Reg6 Hi-byte: Password char Reg6 Lo-byte: Password char Reg7 Hi-byte: Password char Reg7 Lo-byte: Password char Reg8 Hi-byte: Password char Reg8 Lo-byte: Password char

Note: All unused bytes must be filled by 0 (zero) symbol.

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5.   User registers

5.1. First 14 program records of Week Program.(Week_Program)

573	Registers quantity (in bytes): 70
Week program.	*The records of Week's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Week program are 14.*

Single record of Week program.

1 byte	Day of week	0 - unused record 1÷7 - Day of week (Mon÷Sun)							
1 byte	Hour	0 ÷ 23							
1 byte	Minutes	0 ÷ 59							
2 bytes	Temperature	50 ÷ 500 (5ºC ÷ 50ºC)							
2 bytes	TempDHW	100 ÷ 600 (10ºC ÷ 60ºC)							
1 byte	Flags	7	6	5	4	3	2	1	0
		Reserved	Dehumidific.	High Fan	DHW	Night Back	Recircul	Fan Only	Syst Off
2 bytes	Fan Speed	0 ÷ 100 (%)							

5.2. Second 14 program records of Week Program.(Week_Program)

643	Registers quantity (in bytes): 70
Week program.	*The records of Week's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Week program are 14.*

5.3. Third 14 program records of Week Program.(Week_Program)

713	Registers quantity (in bytes): 70
Week program.	*The records of Week's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Week program are 14.*

5.4. First 10 program records of Year program(*Year_Program*)

783	Registers quantity (in bytes): 65
Year program.	*The records of Year's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Year program are 10.*

Single record of Year program.

1 byte	Type	0xFF - Inactive record. 0x00 - Active for selected year only. other - Active every year							
1 byte	Year	0 ÷ 38 (processed for Type == 0 only)							
1 byte	Month	1 ÷ 12							
1 byte	Day	1 ÷ 31							
1 byte	Hour	0 ÷ 23							
1 byte	Minutes	0 ÷ 59							
2 bytes	Temperature	50 ÷ 500 (5ºC ÷ 50ºC)							
2 bytes	TempDHW	100 ÷ 600 (10ºC ÷ 60ºC)							
1 byte	Flags	7	6	5	4	3	2	1	0
		Reserved	Dehumidific.	High Fan	DHW	Night Back	Recircul	Fan Only	Syst Off
2 bytes	Fan Speed	0 ÷ 100 (%)							

5.5. Second 10 program records of Year program(*Year_Program*)

848	Registers quantity (in bytes): 65
Year program.	*The records of Year's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Year program are 10.*

5.6. Third 10 program records of Year program(*Year_Program*)

913	Registers quantity (in bytes): 65
Year program.	*The records of Year's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Year program are 10.*

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5.7. Fourth 10 program records of Year program(*Year_Program*)

978	Registers quantity (in bytes): 65
Year program.	*The records of Year's program are mapped continuously (without spaces) inside the registers field of parameter.* *The records quantity in this section of Year program are 10.*

5.8. System's working mode (*prmSystemWorkinMode*)

1047 (R)	Registers quantity : 1
The current work mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Modes

IDLE	0	System is Off
AUTO	1	System works in Week/Year mode
EXTENDED_OPERATE	2	System works in Ext.Operation mode
MANUAL	3	System works in manual mode
LON	4	System works in LON mode
SERVICE	5	System works in service mode

5.9. Compressor's control for DHW (*prmDHWComprCtrl*)

1323 (R/W)	Registers quantity : 1
The value of compressor's control for DHW heating.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.10. Buzzer mode (*prmBuzzerMode*)

1325 (R/W)	Registers quantity : 1
The enable/disable working of BD buzzer.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

5.11. Inlet filter's Time threshold (*prmFilterInlet_TimeThreshold*)

1326 (R/W)	Registers quantity : 1
The time threshold of inlet filter with software mode selected.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (days)	30 ÷ 360

5.12. Outlet filter's Time threshold (*prmFilterExhaust_TimeThreshold*)

1327 (R/W)	Registers quantity : 1
The time threshold of outlet filter with software mode selected.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (days)	30 ÷ 360

5.13. Pass days for Inlet software filter (*prmFilterInlet_PassDays*)

1328 (R)	Registers quantity : 1
The time threshold of inlet filter with software mode selected.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (days)	0 ÷ 360

5.14. Pass days for Outlet software filter (*prmFilterExhaust_PassDays*)

1329 (R)	Registers quantity : 1
The quantity of passing days for outlet filter with software mode selected.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (days)	0 ÷ 360

5.15. MAC address (*prmNetMAC*)

1330 (R)	Registers quantity : 8
The MAC address for main board device.	Reg1 Hi-byte: MAC 1-st byte Reg1 Lo-byte: MAC 2-nd byte Reg2 Hi-byte: MAC 3-rd byte Reg2 Lo-byte: MAC 4-th byte Reg3 Hi-byte: MAC 5-th byte Reg3 Lo-byte: MAC 6-th byte Reg4 : Reserved Reg5 : Reserved Reg6 : Reserved Reg7 : Reserved Reg8 : Reserved

5.16. IP address (*prmNetIPAddr*)

1338 (R/W)	Registers quantity : 2
The network IP address for main board device.	Reg1 Hi-byte: IP 1-st byte Reg1 Lo-byte: IP 2-nd byte Reg2 Hi-byte: IP 3-rd byte Reg2 Lo-byte: IP 4-th byte

5.17. Net mask (*prmNetMask*)

1340 (R/W)	Registers quantity : 2
The network Mask for main board device.	Reg1 Hi-byte: MASK 1-st byte Reg1 Lo-byte: MASK 2-nd byte Reg2 Hi-byte: MASK 3-rd byte Reg2 Lo-byte: MASK 4-th byte

5.18. Default Gateway IP address (*prmNetDefGateway*)

1342 (R/W)	Registers quantity : 2
The default network gateway IP address selected for main board device.	Reg1 Hi-byte: IP 1-st byte Reg1 Lo-byte: IP 2-nd byte Reg2 Hi-byte: IP 3-rd byte Reg2 Lo-byte: IP 4-th byte

5.19. The Force Operation mode (*prmOperationType*)

2402 (R/W)	Registers quantity : 1
The operation mode selected by user.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Modes

AUTO_MODE	0	Any preferences are absent.
COOLING_MODE	1	The cooling preference.
HEATING_MODE	2	The heating preference.

5.20. The Inlet temperature Max. (*prmMaxInlet*)

2403 (R/W)	Registers quantity : 1
The maximum of inlet temperature are using for regulation.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 500 (5ºC ÷ 50ºC)

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5.21. The summer Inlet temperature Min. (*prmMinSummerInlet*)

2404 (R/W)	Registers quantity : 1
The minimum of summer's inlet temperature are using for regulation.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 500 (5ºC ÷ 50ºC)

5.22. The winter Inlet temperature Min. (*prmMinWinterInlet*)

2405 (R/W)	Registers quantity : 1
The minimum of winter's inlet temperature are using for regulation.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 500 (5ºC ÷ 50ºC)

5.23. The Setpoint of Sum/Win selecting (*prmSumWinSwithZPoint*)

2406 (R/W)	Registers quantity : 1
The setpoint for summer/winter season selecting.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 300 (5ºC ÷ 30ºC)

5.24. The Offset of Sum/Win selecting (*prmSumWinSwithOffset*)

2407 (R/W)	Registers quantity : 1
The offset for summer/winter season selecting.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 ÷ 100 (0ºC ÷ 10ºC)

5.25. Max. of DHW temperature (*prmMaxDHWTemp*)

2828 (R/W)	Registers quantity : 1
The maximal enabled temperature for DHW.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	600 ÷ 800 (60ºC ÷ 80ºC)

5.26. Extended operation 1 (*prmExtendOperation1*)

2832 (R/W)	Registers quantity : 4
The definition of Extended operation 1.	The data placed according to "Extended operation program" description.

Extended operation program.

2 bytes	Temperature	50 ÷ 500 (5ºC ÷ 50ºC)							
2 bytes	TempDHW	100 ÷ 600 (10ºC ÷ 60ºC)							
1 byte	Flags	7	6	5	4	3	2	1	0
		Reserved	Dehumidific.	High Fan	DHW	Night Back	Recircul	Fan Only	Syst Off
1 bytes	Bit field	7-1				0			
		Exhaust fan speed				Fan separate flag			
		0 ÷ 100 (%)				1 – enable, 0 - disable			
1 bytes	Supply fan speed	0 ÷ 100 (%)							

5.27. Duration of Extended operation 1 (*prmExtendOperation1Duration*)

2836 (R/W)	Registers quantity : 1
The duration time of Extended operation 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	0 ÷ 480

5.28. Extended operation 2 (*prmExtendOperation2*)

2837 (R/W)	Registers quantity : 4
The definition of Extended operation 2.	The data placed according to "Extended operation program" description.

Extended operation program.

2 bytes	Temperature	50 ÷ 500 (5ºC ÷ 50ºC)							
2 bytes	TempDHW	100 ÷ 600 (10ºC ÷ 60ºC)							
1 byte	Flags	7	6	5	4	3	2	1	0
		Reserved	Dehumidific.	High Fan	DHW	Night Back	Recircul	Fan Only	Syst Off
1 bytes	Bit field	7-1				0			
		Exhaust fan speed				Fan separate flag			
		0 ÷ 100 (%)				1 – enable, 0 - disable			
1 bytes	Supply fan speed	0 ÷ 100 (%)							

5.29. Duration of Extended operation 2 (*prmExtendOperation2Duration*)

2841 (R/W)	Registers quantity : 1
The duration time of Extended operation 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	0 ÷ 480

5.30. Timeout of Buffer tank electric heater enabling (*prmPelectricTimeout*)

3259 (R/W)	Registers quantity : 1
The time before the Buffer tank electric heater will switched on if temperature of Buffer tank is less that the minimal acceptable temperature.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (min)	1 ÷ 15

5.31. Level of BD back light (*prmDispBackLight*)

3260 (R/W)	Registers quantity : 1
The level of BD back light.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	30 ÷ 100

5.32. Timeout of BD sleeping (back light switch off) (*prmDispSleepTimeout*)

3261 (R/W)	Registers quantity : 1
The timeout before the BD back light will be switched off.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 60 0 - Switch off is absent.

5.33. DHW min. supply limit. (*prmMinDHWTemp*)

3935 (R/W)	Registers quantity : 1
The minimal temperature limit for DHW.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 850 (5ºC ÷ 85ºC)

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5.34. DHW heater enable. (prmDHW_HeaterEnable)

3938 (R/W)	Registers quantity : 1
The enable/ disable the electric heater of DHW tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

5.35. BD work interface language (prmBDLanguageType)

3951 (R/W)	Registers quantity : 1
The ID of laguage.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Languages ID

EN_LANG	0	EE_LANG	36	IT_LANG	72	MT_LANG	108	SI_LANG	144
AA_LANG	1	EL_LANG	37	IU_LANG	73	MY_LANG	109	SK_LANG	145
AB_LANG	2	EO_LANG	38	JA_LANG	74	NA_LANG	110	SL_LANG	146
AE_LANG	3	ES_LANG	39	JV_LANG	75	NB_LANG	111	SM_LANG	147
AF_LANG	4	ET_LANG	40	KA_LANG	76	ND_LANG	112	SN_LANG	148
AK_LANG	5	EU_LANG	41	KG_LANG	77	NE_LANG	113	SO_LANG	149
AM_LANG	6	FA_LANG	42	KI_LANG	78	NG_LANG	114	SQ_LANG	150
AN_LANG	7	FF_LANG	43	KJ_LANG	79	NL_LANG	115	SR_LANG	151
AR_LANG	8	FI_LANG	44	KK_LANG	80	NN_LANG	116	SS_LANG	152
AS_LANG	9	FJ_LANG	45	KL_LANG	81	NO_LANG	117	ST_LANG	153
AV_LANG	10	FO_LANG	46	KM_LANG	82	NR_LANG	118	SU_LANG	154
AY_LANG	11	FR_LANG	47	KN_LANG	83	NV_LANG	119	SV_LANG	155
AZ_LANG	12	FY_LANG	48	KO_LANG	84	NY_LANG	120	SW_LANG	156
BA_LANG	13	GA_LANG	49	KR_LANG	85	OC_LANG	121	TA_LANG	157
BE_LANG	14	GD_LANG	50	KS_LANG	86	OJ_LANG	122	TE_LANG	158
BG_LANG	15	GL_LANG	51	KU_LANG	87	OM_LANG	123	TG_LANG	159
BH_LANG	16	GN_LANG	52	KV_LANG	88	OR_LANG	124	TH_LANG	160
BI_LANG	17	GU_LANG	53	KW_LANG	89	OS_LANG	125	TI_LANG	161
BM_LANG	18	GV_LANG	54	KY_LANG	90	PA_LANG	126	TK_LANG	162
BN_LANG	19	HA_LANG	55	LA_LANG	91	PI_LANG	127	TL_LANG	163
BO_LANG	20	HE_LANG	56	LB_LANG	92	PL_LANG	128	TN_LANG	164
BR_LANG	21	HI_LANG	57	LG_LANG	93	PS_LANG	129	TO_LANG	165
BS_LANG	22	HO_LANG	58	LI_LANG	94	PT_LANG	130	TR_LANG	166
CA_LANG	23	HR_LANG	59	LN_LANG	95	QU_LANG	131	TS_LANG	167
CE_LANG	24	HT_LANG	60	LO_LANG	96	RM_LANG	132	TT_LANG	168

CH_LANG	25	HU_LANG	61	LT_LANG	97	RN_LANG	133	TW_LANG	169
CO_LANG	26	HY_LANG	62	LU_LANG	98	RO_LANG	134	TY_LANG	170
CR_LANG	27	HZ_LANG	63	LV_LANG	99	RU_LANG	135	UG_LANG	171
CS_LANG	28	IA_LANG	64	MG_LANG	100	RW_LANG	136	UK_LANG	172
CU_LANG	29	ID_LANG	65	MH_LANG	101	RY_LANG	137	UR_LANG	173
CV_LANG	30	IE_LANG	66	MI_LANG	102	SA_LANG	138	UZ_LANG	174
CY_LANG	31	IG_LANG	67	MK_LANG	103	SC_LANG	139	VE_LANG	175
DA_LANG	32	II_LANG	68	ML_LANG	104	SD_LANG	140	VI_LANG	176
DE_LANG	33	IK_LANG	69	MN_LANG	105	SE_LANG	141	VO_LANG	177
DV_LANG	34	IO_LANG	70	MR_LANG	106	SG_LANG	142	WA_LANG	178
DZ_LANG	35	IS_LANG	71	MS_LANG	107	SH_LANG	143	WO_LANG	179

XH_LANG	180
YI_LANG	181
YO_LANG	182
ZA_LANG	183
ZH_LANG	184
ZU_LANG	185

Note: For success of language selection the BD should has language file according to selected language ID.

5.36. Circuital pump default flow. (*prmCircPumpIdealFlow*)

3953 (R/W)	Registers quantity : 1
The default control value for Circuital pump.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

5.37. Circuital pump speed for Cooling mode. (*prmCircPumpCoolingSpeed*)

4094 (R/W)	Registers quantity : 1
The control value of Circuital pump for Cooling mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

5.38. System Off enable (*AllSystemsStop*)

4104 (R/W)	Registers quantity : 1
The enable/disable system STOP by user.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Disable 1 - Enable

5.39. DHW sacrificial anode protection. (*prmIsAnodeDetect*)

4233 (R)	Registers quantity : 1
The enable/ disable the electric heater of DHW tank.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Sacrificial anode states.

NO_ANODE_DETECT	0	No sacrificial anode detected.
IS_ANODE_DETECT	1	The sacrificial anode detected.
IS_ANODE_WARNING	2	The sacrificial anode injured.
ANODE_WARN_MSG	3	The sacrificial anode is broken.

5.40. Events list sort mode. (*prmEventsListSortMode*)

4235 (R/W)	Registers quantity : 1
The sort mode of Events list.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Modes.

TIME_SM	1	Sort order: At ArisingTime (from Last to New).
TIME_REV_SM	2	Sort order: At ArisingTime (from New to Last).
ADR_TIME_SM	3	Sort order: At BoardId + ArisingTime (from Last to New).
ADR_TIME_REV_SM	4	Sort order: At BoardId + ArisingTime (from New to Last).
TYPE_TIME_SM	5	Sort order: At EventType + ArisingTime (from Last to New).
TYPE_TIME_REV_SM	6	Sort order: At EventType + ArisingTime (from New to Last).

5.41. Control of Air Damper 1 switch. (*VAL_DEV_DAMPER1*)

4689 (R)	Registers quantity : 1
The current switch state of AirDamper1 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Closed 1 - Open

5.42. Control of Air Damper 2 switch. (*VAL_DEV_DAMPER2*)

4690 (R)	Registers quantity : 1
The current switch state of AirDamper2 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Closed 1 - Open

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5.43. Control of Air Damper 3 switch. (*VAL_DEV_DAMPER3*)

4691 (R)	Registers quantity : 1
The current switch state of AirDamper3 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Closed 1 - Open

5.44. Deterioration of Inlet filter. (*VAL_DEV_FILTER_INLET*)

4692 (R)	Registers quantity : 1
The quantity of Inlet Filter deterioration.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.45. Deterioration of Outlet filter. (*VAL_DEV_FILTER_EXHAUST*)

4693 (R)	Registers quantity : 1
The quantity of Outlet Filter deterioration.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.46. Control of Inlet Fan. (*VAL_DEV_FAN_INLET*)

4699 (R)	Registers quantity : 1
The current control value of Inlet fan device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.47. Control of Outlet Fan. (*VAL_DEV_FAN_EXHAUST*)

4700 (R)	Registers quantity : 1
The current control value of Outlet fan device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.48. Control of Heater. (*VAL_DEV_HEATER*)

4701 (R)	Registers quantity : 1
The current control value of Heater device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

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5.49. Control of 4Way. (VAL_DEV_FOURWAY_VALVE)

4703 (R)	Registers quantity : 1
The current control value of 4Way device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.50. Control of Bypass1. (VAL_DEV_BYPASS1)

4704 (R)	Registers quantity : 1
The current control value of Bypass1 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.51. Control of Bypass2. (VAL_DEV_BYPASS2)

4705 (R)	Registers quantity : 1
The current control value of Bypass2 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.52. Control of Compressor1. (VAL_DEV_COMPRESSOR1)

4706 (R)	Registers quantity : 1
The current control value of Compressor1 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.53. Control of Compressor2. (VAL_DEV_COMPRESSOR2)

4707 (R)	Registers quantity : 1
The current control value of Compressor2 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.54. Control of Compressor3. (VAL_DEV_COMPRESSOR3)

4708 (R)	Registers quantity : 1
The current control value of Compressor3 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

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5.55. Control of Compressor4. (*VAL_DEV_COMPRESSOR4*)

4709 (R)	Registers quantity : 1
The current control value of Compressor4 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.56. Control of Compressor5. (*VAL_DEV_COMPRESSOR5*)

4710 (R)	Registers quantity : 1
The current control value of Compressor5 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.57. Control of Compressor6. (*VAL_DEV_COMPRESSOR6*)

4711 (R)	Registers quantity : 1
The current control value of Compressor6 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.58. Value of CO^2 sensor. (*VAL_DEV_CO2_SENSOR*)

4712 (R)	Registers quantity : 1
The current value of CO^2 sensor device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 - 2000

5.59. Value of BD temperature sensor. (*VAL_DEV_TSENS_BDB*)

4713 (R)	Registers quantity : 1
The current value BD temperature sensor device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.60. Control of BypassDamper. (*VAL_DEV_BYPASSDUMP*)

4715 (R)	Registers quantity : 1
The current control value of BypassDamper device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.61. Value of Humidity sensor. (*VAL_DEV_RH_SENSOR*)

4716 (R)	Registers quantity : 1
The current value of Humidity sensor device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.62. New Date-Time value. (*RTC_NEW_DATE*)

4718 (W)	Registers quantity : 4
The value for setting new Date and Time value.	Reg1 Hi-byte: Seconds (0 ÷ 59) Reg1 Lo-byte: Minutes (0 ÷ 59) Reg2 Hi-byte: Hours (0 ÷ 23) Reg2 Lo-byte: Day (1 ÷ 31) Reg3 Hi-byte: Day of week (1 ÷ 7) Reg3 Lo-byte: Month (1 ÷ 12) Reg4 Hi-byte: Year (0 ÷ 38) Reg4 Lo-byte: Reserved

5.63. Current Date-Time value. (*RTC_CUR_DATE*)

4722 (R)	Registers quantity : 4
The current Date and Time value.	Reg1 Hi-byte: Seconds (0 ÷ 59) Reg1 Lo-byte: Minutes (0 ÷ 59) Reg2 Hi-byte: Hours (0 ÷ 23) Reg2 Lo-byte: Day (1 ÷ 31) Reg3 Hi-byte: Day of week (1 ÷ 7) Reg3 Lo-byte: Month (1 ÷ 12) Reg4 Hi-byte: Year (0 ÷ 38) Reg4 Lo-byte: Reserved

5.64. Pause mode enable. (*prmPauseMode*)

4727 (R/W)	Registers quantity : 1
Setup the Pause mode.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

The pause mode types.

PAUSE_NONE	0	Pause mode disabled.
PAUSE_VENT	1	Pause mode enabled for ventilation.
PAUSE_DHW	2	Pause mode enabled for DHW.
PAUSE_ALL	3	Pause mode enabled.

5.65. User setpoint value. (*prmUserTemperature*)

4746 (R/W)	Registers quantity : 1
The setpoint which was set by user..	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	50 ÷ 500 (5ºC ÷ 50ºC)

5.66. User Fan speed setting. (*prmUserFanSpeed*)

4747 (R/W)	Registers quantity : 1
The setting of Fan speed which was set by user.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	20 ÷ 100

5.67. Anti-Legionella mode activity. (*prmLegionIsRun*)

4748 (R)	Registers quantity : 1
The parameter notes the activity of Anti-Legionella functionality.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Inactive 1 - Active

5.68. Anti-Legionella mode force. (*prmLegionellaForce*)

4749 (R/W)	Registers quantity : 1
The force start of Anti-Legionella function.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - None 1 - Force

5.69. Inlet filter reset. (*prmResetTimeINLETFilter*)

4756 (R/W)	Registers quantity : 1
The reset Inlet filter time of using (for Software filter).	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - None 1 - Reset

5.70. Outlet filter reset. (prmResetTimeEXHAUSTFilter)

4757 (R/W)	Registers quantity : 1
The reset Outlet filter time of using (for Software filter).	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - None 1 - Reset

5.71. First part of Accessible languages. (prmAllowBDLanguage)

4891 (R)	Registers quantity (in bytes): 64
The list of languages whose description files are present on the BD device..	The language ID-s sequentially places on registers memory map (two ID in one Modbus register). The first occurrence of Invalid language ID - list stop.
Admissible values	Languages ID from 3951 Register's definition.

Note: The parameter is valid in case of BD using only.

5.72. Last part of Accessible languages. (prmAllowBDLanguage)

4955 (R)	Registers quantity (in bytes): 64
The list of languages whose description files are present on the BD device..	The language ID-s sequentially places on registers memory map (two ID in one Modbus register). The first occurrence of Invalid language ID - list stop.
Admissible values	Languages ID from 3951 Register's definition.

Note: The parameter is valid in case of BD using only.

5.73. Heater external state. (DRV_EXT_LN_STATE_Heater)

5019 (R)	Registers quantity : 1
The state of external heater.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

The device statuses.

OK	0	Device Ok.
ON	1	Device On.
OFF	2	Device Off.
START_UP	3	Device Start up.
REFRIGERATE	4	Device Refrigerate.
FROST	5	Device Frost.
EXCHAGE_ERR	6	Device Error.

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| NOT_READY | 7 | Device Not ready. |
| OVERHEAT | 8 | Device Overheat. |

5.74. BD TPanel temperature sensor state. (prmTempSensorTPanel_State)

5021 (R)	Registers quantity : 1
The state of temperature sensor of BD Tpanel device..	Reg1 Hi-byte: MSB Reg1 Lo-byte:

The temperature sensor states.

OK	0	State is Ok.
CHUNTED	1	The temperature sensor has been shunted.
DISCONNECT	2	Temperature sensor is disconnected.
INVALID	3	Impossible to compute a value.

5.75. Anti-Legionella mode activity for Solar. (prmSolar_LegionIsRun)

5059 (R)	Registers quantity : 1
The parameter notes the activity of Anti-Legionella functionality for Solar system.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Inactive 1 - Active

5.76. Software version. (prmVersionSW)

5065 (R)	Registers quantity : 2
The version number of SW.	Reg1 Hi-byte: Major version number Reg1 Lo-byte:Hi Middle version number Reg2 Hi-byte: Lo Middle version number Reg2 Lo-byte:Minor version number

5.77. Software date. (prmDateSW)

5067 (R)	Registers quantity : 4
The date of SW.	Reg1 Hi-byte: Seconds (0 ÷ 59) Reg1 Lo-byte: Minutes (0 ÷ 59) Reg2 Hi-byte: Hours (0 ÷ 23) Reg2 Lo-byte: Day (1 ÷ 31) Reg3 Hi-byte: Day of week (1 ÷ 7) Reg3 Lo-byte: Month (1 ÷ 12) Reg4 Hi-byte: Year (0 ÷ 38) Reg4 Lo-byte: Reserved

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5.78. Temperature of Master sensor. (*prmTmasterSensor*)

5088 (R)	Registers quantity : 1
The temperature value of Master sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.79. DI value 1. (*VAL_DEV_DI1*)

5096 (R)	Registers quantity : 1
The value of digital input 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.80. DI value 2. (*VAL_DEV_DI2*)

5097 (R)	Registers quantity : 1
The value of digital input 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.81. DI value 3. (*VAL_DEV_DI3*)

5098 (R)	Registers quantity : 1
The value of digital input 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.82. DI value 4. (*VAL_DEV_DI4*)

5099 (R)	Registers quantity : 1
The value of digital input 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.83. DI value 5. (*VAL_DEV_DI5*)

5100 (R)	Registers quantity : 1
The value of digital input 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Admissible values	0 / 1

5.84. DI value 6. (*VAL_DEV_DI6*)

5101 (R)	Registers quantity : 1
The value of digital input 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.85. DI value 7. (*VAL_DEV_DI7*)

5102 (R)	Registers quantity : 1
The value of digital input 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.86. DI value 8. (*VAL_DEV_DI8*)

5103 (R)	Registers quantity : 1
The value of digital input 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.87. DI value 9. (*VAL_DEV_DI9*)

5104 (R)	Registers quantity : 1
The value of digital input 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.88. DI value 10. (*VAL_DEV_DI10*)

5105 (R)	Registers quantity : 1
The value of digital input 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

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5.89. AI value 1. (*VAL_DEV_AI1*)

5132 (R)	Registers quantity : 1
The value of analog input 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.90. AI value 2. (*VAL_DEV_AI2*)

5133 (R)	Registers quantity : 1
The value of analog input 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.91. AI value 3. (*VAL_DEV_AI3*)

5134 (R)	Registers quantity : 1
The value of analog input 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.92. AI value 4. (*VAL_DEV_AI4*)

5135 (R)	Registers quantity : 1
The value of analog input 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.93. AI value 5. (*VAL_DEV_AI5*)

5136 (R)	Registers quantity : 1
The value of analog input 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.94. AI value 6. (*VAL_DEV_AI6*)

5137 (R)	Registers quantity : 1
The value of analog input 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

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5.95. AI value 7. (*VAL_DEV_AI7*)

5138 (R)	Registers quantity : 1
The value of analog input 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.96. AI value 8. (*VAL_DEV_AI8*)

5139 (R)	Registers quantity : 1
The value of analog input 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.97. AI value 9. (*VAL_DEV_AI9*)

5140 (R)	Registers quantity : 1
The value of analog input 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 ÷ 100

5.98. Temperature sensor 1. (*VAL_DEV_TSENS1*)

5152 (R)	Registers quantity : 1
The temperature value of T1 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.99. Temperature sensor 2. (*VAL_DEV_TSENS2*)

5153 (R)	Registers quantity : 1
The temperature value of T2 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.100.   Temperature sensor 3. (*VAL_DEV_TSENS3*)

5154 (R)	Registers quantity : 1
The temperature value of T3 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

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5.101.   Temperature sensor 4. (*VAL_DEV_TSENS4*)

5155 (R)	Registers quantity : 1
The temperature value of T4 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.102.   Temperature sensor 5. (*VAL_DEV_TSENS5*)

5156 (R)	Registers quantity : 1
The temperature value of T5 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.103.   Temperature sensor 6. (*VAL_DEV_TSENS6*)

5157 (R)	Registers quantity : 1
The temperature value of T6 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.104.   Temperature sensor 7. (*VAL_DEV_TSENS7*)

5158 (R)	Registers quantity : 1
The temperature value of T7 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.105.   Temperature sensor 8. (*VAL_DEV_TSENS8*)

5159 (R)	Registers quantity : 1
The temperature value of T8 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.106.   Temperature sensor 9. (*VAL_DEV_TSENS9*)

5160 (R)	Registers quantity : 1
The temperature value of T9 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

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5.107. Temperature sensor 10. (*VAL_DEV_TSENS10*)

5161 (R)	Registers quantity : 1
The temperature value of T10 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.108. Temperature sensor 11. (*VAL_DEV_TSENS11*)

5162 (R)	Registers quantity : 1
The temperature value of T11 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.109. Temperature sensor 12. (*VAL_DEV_TSENS12*)

5163 (R)	Registers quantity : 1
The temperature value of T12 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.110. Temperature sensor 13. (*VAL_DEV_TSENS13*)

5164 (R)	Registers quantity : 1
The temperature value of T13 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.111. Temperature sensor 14. (*VAL_DEV_TSENS14*)

5165 (R)	Registers quantity : 1
The temperature value of T14 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.112. Temperature sensor 15. (*VAL_DEV_TSENS15*)

5166 (R)	Registers quantity : 1
The temperature value of T15 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

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5.113. Temperature sensor 16. (*VAL_DEV_TSENS16*)

5167 (R)	Registers quantity : 1
The temperature value of T16 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.114. Temperature sensor 17. (*VAL_DEV_TSENS17*)

5168 (R)	Registers quantity : 1
The temperature value of T17 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.115. Temperature sensor 18. (*VAL_DEV_TSENS18*)

5169 (R)	Registers quantity : 1
The temperature value of T18 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.116. Temperature sensor 19. (*VAL_DEV_TSENS19*)

5170 (R)	Registers quantity : 1
The temperature value of T19 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.117. Temperature sensor 20. (*VAL_DEV_TSENS20*)

5171 (R)	Registers quantity : 1
The temperature value of T20 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.118. Temperature sensor 21. (*VAL_DEV_TSENS21*)

5172 (R)	Registers quantity : 1
The temperature value of T21 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

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5.119.   Temperature sensor 22. (*VAL_DEV_TSENS22*)

5173 (R)	Registers quantity : 1
The temperature value of T22 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.120.   Temperature sensor 23. (*VAL_DEV_TSENS23*)

5174 (R)	Registers quantity : 1
The temperature value of T23 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.121.   Temperature sensor 24. (*VAL_DEV_TSENS24*)

5175 (R)	Registers quantity : 1
The temperature value of T24 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.122.   Temperature sensor 25. (*VAL_DEV_TSENS25*)

5176 (R)	Registers quantity : 1
The temperature value of T25 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.123.   Temperature sensor 26. (*VAL_DEV_TSENS26*)

5177 (R)	Registers quantity : 1
The temperature value of T26 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.124.   Temperature sensor 27. (*VAL_DEV_TSENS27*)

5178 (R)	Registers quantity : 1
The temperature value of T27 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

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5.125.   Temperature sensor 28. (*VAL_DEV_TSENS28*)

5179 (R)	Registers quantity : 1
The temperature value of T28 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.126.   Temperature sensor 29. (*VAL_DEV_TSENS29*)

5180 (R)	Registers quantity : 1
The temperature value of T29 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.127.   Temperature sensor 30. (*VAL_DEV_TSENS30*)

5181 (R)	Registers quantity : 1
The temperature value of T30 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.128.   Temperature sensor 31. (*VAL_DEV_TSENS31*)

5182 (R)	Registers quantity : 1
The temperature value of T31 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.129.   Temperature sensor 32. (*VAL_DEV_TSENS32*)

5183 (R)	Registers quantity : 1
The temperature value of T32 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.130.   Temperature sensor 33. (*VAL_DEV_TSENS33*)

5184 (R)	Registers quantity : 1
The temperature value of T33 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.131.   Temperature sensor 34. (*VAL_DEV_TSENS34*)

5185 (R)	Registers quantity : 1
The temperature value of T34 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.132.   Temperature sensor 35. (*VAL_DEV_TSENS35*)

5186 (R)	Registers quantity : 1
The temperature value of T35 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.133.   Temperature sensor 36. (*VAL_DEV_TSENS36*)

5187 (R)	Registers quantity : 1
The temperature value of T36 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.134.   Temperature sensor 37. (*VAL_DEV_TSENS37*)

5188 (R)	Registers quantity : 1
The temperature value of T37 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.135.   Temperature sensor 38. (*VAL_DEV_TSENS38*)

5189 (R)	Registers quantity : 1
The temperature value of T38 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.136.   Temperature sensor 39. (*VAL_DEV_TSENS39*)

5190 (R)	Registers quantity : 1
The temperature value of T39 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.137.   Temperature sensor 40. (*VAL_DEV_TSENS40*)

5191 (R)	Registers quantity : 1
The temperature value of T40 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.138.   Temperature sensor 41. (*VAL_DEV_TSENS41*)

5192 (R)	Registers quantity : 1
The temperature value of T41 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.139.   Temperature sensor 42. (*VAL_DEV_TSENS42*)

5193 (R)	Registers quantity : 1
The temperature value of T42 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.140.   Temperature sensor 43. (*VAL_DEV_TSENS43*)

5194 (R)	Registers quantity : 1
The temperature value of T43 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.141.   Temperature sensor 44. (*VAL_DEV_TSENS44*)

5195 (R)	Registers quantity : 1
The temperature value of T44 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.142.   Temperature sensor 45. (*VAL_DEV_TSENS45*)

5196 (R)	Registers quantity : 1
The temperature value of T45 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

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5.143. Temperature sensor 46. (*VAL_DEV_TSENS46*)

5197 (R)	Registers quantity : 1
The temperature value of T46 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.144. Temperature sensor 47. (*VAL_DEV_TSENS47*)

5198 (R)	Registers quantity : 1
The temperature value of T47 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.145. Temperature sensor 48. (*VAL_DEV_TSENS48*)

5199 (R)	Registers quantity : 1
The temperature value of T48 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.146. Temperature sensor 49. (*VAL_DEV_TSENS49*)

5200 (R)	Registers quantity : 1
The temperature value of T49 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.147. Temperature sensor 50. (*VAL_DEV_TSENS50*)

5201 (R)	Registers quantity : 1
The temperature value of T50 sensor.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	-400 ÷ 1600 (-40ºC ÷ 160ºC)

5.148. Pressure sensor 1. (*VAL_DEV_PRESSURE_SENS1*)

5272 (R)	Registers quantity : 1
The pressure value of Pressure sensor 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

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5.149. Pressure sensor 2. (*VAL_DEV_PRESSURE_SENS2*)

5273 (R)	Registers quantity : 1
The pressure value of Pressure sensor 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.150. Pressure sensor 3. (*VAL_DEV_PRESSURE_SENS3*)

5274 (R)	Registers quantity : 1
The pressure value of Pressure sensor 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.151. Pressure sensor 4. (*VAL_DEV_PRESSURE_SENS4*)

5275 (R)	Registers quantity : 1
The pressure value of Pressure sensor 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.152. Pressure sensor 5. (*VAL_DEV_PRESSURE_SENS5*)

5276 (R)	Registers quantity : 1
The pressure value of Pressure sensor 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.153. Pressure sensor 6. (*VAL_DEV_PRESSURE_SENS6*)

5277 (R)	Registers quantity : 1
The pressure value of Pressure sensor 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.154. Pressure sensor 7. (*VAL_DEV_PRESSURE_SENS7*)

5278 (R)	Registers quantity : 1
The pressure value of Pressure sensor 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.155. Pressure sensor 8. (*VAL_DEV_PRESSURE_SENS8*)

5279 (R)	Registers quantity : 1
The pressure value of Pressure sensor 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.156. Pressure sensor 9. (*VAL_DEV_PRESSURE_SENS9*)

5280 (R)	Registers quantity : 1
The pressure value of Pressure sensor 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.157. Pressure sensor 10. (*VAL_DEV_PRESSURE_SENS10*)

5281 (R)	Registers quantity : 1
The pressure value of Pressure sensor 10.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.158. Pressure sensor 11. (*VAL_DEV_PRESSURE_SENS11*)

5282 (R)	Registers quantity : 1
The pressure value of Pressure sensor 11.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.159. Pressure sensor 12. (*VAL_DEV_PRESSURE_SENS12*)

5283 (R)	Registers quantity : 1
The pressure value of Pressure sensor 12.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (Pas/Bar)	-3000 ÷ 16000

5.160. Digital output 1. (*VAL_DEV_DO1*)

5284 (R)	Registers quantity : 1
The value of Digital output 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

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5.161.   Digital output 2. (*VAL_DEV_DO2*)

5285 (R)	Registers quantity : 1
The value of Digital output 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.162.   Digital output 3. (*VAL_DEV_DO3*)

5286 (R)	Registers quantity : 1
The value of Digital output 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.163.   Digital output 4. (*VAL_DEV_DO4*)

5287 (R)	Registers quantity : 1
The value of Digital output 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.164.   Digital output 5. (*VAL_DEV_DO5*)

5288 (R)	Registers quantity : 1
The value of Digital output 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.165.   Digital output 6. (*VAL_DEV_DO6*)

5289 (R)	Registers quantity : 1
The value of Digital output 6.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.166.   Digital output 7. (*VAL_DEV_DO7*)

5290 (R)	Registers quantity : 1
The value of Digital output 7.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.167.   Digital output 8. (*VAL_DEV_DO8*)

5291 (R)	Registers quantity : 1
The value of Digital output 8.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.168.   Digital output 9. (*VAL_DEV_DO9*)

5292 (R)	Registers quantity : 1
The value of Digital output 9.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.169.   Digital output 10. (*VAL_DEV_DO10*)

5293 (R)	Registers quantity : 1
The value of Digital output.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.170.   Digital output 40. (*VAL_DEV_DO40*)

5367 (R)	Registers quantity : 1
The value of Digital output 40.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	0 / 1

5.171.   Analog output 1. (*VAL_DEV_AO1*)

5372 (R)	Registers quantity : 1
The value of Analog output 1.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.172.   Analog output 2. (*VAL_DEV_AO2*)

5373 (R)	Registers quantity : 1
The value of Analog output 2.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

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5.173. Analog output 3. (*VAL_DEV_AO3*)

5374 (R)	Registers quantity : 1
The value of Analog output 3.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.174. Analog output 4. (*VAL_DEV_AO4*)

5375 (R)	Registers quantity : 1
The value of Analog output 4.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.175. Analog output 5. (*VAL_DEV_AO5*)

5376 (R)	Registers quantity : 1
The value of Analog output 5.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.176. Current regulation mode. (*prmRegulationMode*)

5432 (R)	Registers quantity : 1
The current mode of Regulation algorithm.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Modes of regulation.

UNDEFINE_MODE	0	Mode isn't defined.
COOLING_MODE	1	Cooling mode.
HEATING_MODE	2	Heating mode.
VENTILATION_MODE	3	Ventilation mode.
HOT_WATER_MODE	4	Hot water mode.

5.177.   Current phase of defrosting. (*prmDefrostingPhase*)

5450 (R)	Registers quantity : 1
The current phase (step) of Defrosting process.	Reg1 Hi-byte: MSB Reg1 Lo-byte:

Phases of Defrosting.

STOP_DEFROSTING	0	Mode isn't defined.
START_DEFROSTING	1	Cooling mode.
RUN_DEFROSTING	2	Heating mode.
AFTER_DEFROSTING	3	Ventilation mode.

5.178.   Control of Pre-Heater. (*VAL_DEV_PRE_HEATER*)

5468 (R)	Registers quantity : 1
The current control value of Heater device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.179.   Control of BA HEX. (*VAL_DEV_BA_HEX*)

5470 (R)	Registers quantity : 1
The current switch state of BAH device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 - Closed 1 - Open

5.180.   Control of Pump1. (*VAL_DEV_PUMP1*)

5474 (R)	Registers quantity : 1
The current control value of Pump 1 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.181.   Control of Pump2. (*VAL_DEV_PUMP2*)

5475 (R)	Registers quantity : 1
The current control value of Pump 2 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.182. Control of Pump3. (*VAL_DEV_PUMP3*)

5476 (R)	Registers quantity : 1
The current control value of Pump 3 device.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits (%)	0 ÷ 100

5.183. Temperature 40 sensor as Digital Input. (*VAL_DEV_TSENS_AS_DI40*)

5516 (R)	Registers quantity : 1
The value of Temperature sensor 40 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.184. Temperature 41 sensor as Digital Input. (*VAL_DEV_TSENS_AS_DI41*)

5517 (R)	Registers quantity : 1
The value of Temperature sensor 41 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.185. Temperature 42 sensor as Digital Input. (*VAL_DEV_TSENS_AS_DI42*)

5518 (R)	Registers quantity : 1
The value of Temperature sensor 42 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.186. Temperature 43 sensor as Digital Input. (*VAL_DEV_TSENS_AS_DI43*)

5519 (R)	Registers quantity : 1
The value of Temperature sensor 43 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.187. Temperature 44 sensor as Digital Input. (VAL_DEV_TSENS_AS_DI44)

5520 (R)	Registers quantity : 1
The value of Temperature sensor 44 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.188. Temperature 45 sensor as Digital Input. (VAL_DEV_TSENS_AS_DI45)

5521 (R)	Registers quantity : 1
The value of Temperature sensor 45 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.189. Temperature 46 sensor as Digital Input. (VAL_DEV_TSENS_AS_DI46)

5522 (R)	Registers quantity : 1
The value of Temperature sensor 46 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.190. Temperature 47 sensor as Digital Input. (VAL_DEV_TSENS_AS_DI47)

5523 (R)	Registers quantity : 1
The value of Temperature sensor 47 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.191. Temperature 48 sensor as Digital Input. (VAL_DEV_TSENS_AS_DI48)

5524 (R)	Registers quantity : 1
The value of Temperature sensor 48 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

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5.192. Temperature 49 sensor as Digital Input. (*VAL_DEV_TSENS_AS_DI49*)

5525 (R)	Registers quantity : 1
The value of Temperature sensor 49 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.193. Temperature 50 sensor as Digital Input. (*VAL_DEV_TSENS_AS_DI50*)

5526 (R)	Registers quantity : 1
The value of Temperature sensor 50 which is presented as digital input signal.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Admissible values	0 / 1

5.194. Hardware version. (*prmVersionHW*)

5539 (R)	Registers quantity : 1
The version number of HardwareW.	Reg1 Hi-byte: Major version number Reg1 Lo-byte:Minor version number

5.195. Software date. (*prmDateProdactHW*)

5540 (R)	Registers quantity : 4
The date of Hardware production.	Reg1 Hi-byte: Seconds (0 ÷ 59) Reg1 Lo-byte: Minutes (0 ÷ 59) Reg2 Hi-byte: Hours (0 ÷ 23) Reg2 Lo-byte: Day (1 ÷ 31) Reg3 Hi-byte: Day of week (1 ÷ 7) Reg3 Lo-byte: Month (1 ÷ 12) Reg4 Hi-byte: Year (0 ÷ 38) Reg4 Lo-byte: Reserved

5.196. Serial number. (*prmSerial*)

5544 (R)	Registers quantity : 2
The Serial number of control board.	Reg1 Hi-byte: Highest part of number Reg1 Lo-byte: ... Reg2 Hi-byte: ... Reg2 Lo-byte: Lowest part of Number

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5.197. User DHW setpoint value. (*prmUserTempDHW*)

5548 (R/W)	Registers quantity : 1
The temperature of DHW user setpoint.	Reg1 Hi-byte: MSB Reg1 Lo-byte:
Limits	100 ÷ 650 (10ºC ÷ 65ºC)

5.198. Event log registers

10000 (R/W)	Registers quantity : 1
The general information about events.	0-8 bits: quantity of events in the list in this time 14 bit: shows the presence of changed in the event list since previous reading 15 bit: shows the presence unacknowledged event in the list
- The writing operation to this register will acknowledge all unacknowledged events - The reading operation from this register will lead to updating of content of Modbus range 10001-10256(Event list)	

10001 - 10256 (R/W)	Registers quantity : 256
The event list sorted by creation time; the most oldest event has the higest register number.	0-7 bits: event ID 15 bit: unacknowledged or not this event
- The writing operation to any register in this list will lead to acknowledging the according event - Between reading the register 10000 the content of the Modbus reange 10001-10256 remains invariable	