

MANDÍK[®]

AHU MANDÍK PARAMETERISATION FROM POL822 ROOM DEVICE



Climatix™











Obsah

Building Technologies	1
1 Description	3
Identification code	3
Units	3
2 Control button functions	4
3 Control	5
Input password	5
Identification code	5
Parameter value change	5
Return to home screen	5
4 Parameters and their identification codes	6
Description	6
Fans	10
Fans - assignment I/O	11
Dampers	14
Water heating	17
Water heating – assignment I/O	17
Boiler room	17
Elektric heating	18
Elektric heating– Assignment I/O	18
Water cooling	20
Water cooling – assignment I/O	20
Condensate	21
Condensate unit – assignment I/O	21
Air quality	22
Air quality – assignment I/O	22
Humidity control	23
Humidity control – assignment I/O	23
Analogue and digital input assignment	27
ModBus Configuration	34
5 Range values	35


1 Description

- Identification code** This identification code description is valid from the KJVVS103625.01 controller software version
- Each air conditioner operating and configuration parameter is assigned to a unique identification code in the form of **Xxx**, where:
- **X** (capital letter) - means a group of parameters.
 - **xx** (digits) - means the parameter numeric code in the selected group of **X**.
- Units** Parameter values are listed in the following units, which are not visible due to display firmware:
- temperature (°C), where the temperature symbol icon appears next to the identification code.
 - Relative humidity (%).
 - Absolute humidity (g/m³).
 - Air quality (ppm).
 - Pressure (Pa).
 - Air quantity in tens (m³/h).
 - Speed, power, position (%).
 - Time (s).

2 Control button functions

No.	Symbol	Name	Function	
1		Mode/ Mod1	Short press	Switches the operating modes Off , Tempering Attenuation , Comfort and Time Programme . Outside the start-up screen with the mode selection, it terminates entering temperature, speed, fresh air, etc.
2		Stay	Short press	Switches the unit temporarily to Comfort mode.
			Long press 4s	Displays current faults that are indicated by icon No. 16.
			Long press 8s	Locks/unlocks key functions as indicated by HMI Lock/HMI Open .
3		Prog	Short press	Displays the current controller time setting. Outside the start-up screen, it prematurely terminates these and other parameter settings.
			Long press	Allows to change the time programme settings.
4		Minus	Short press	Allows the desired value of the selected parameter to be lowered (temperature, speed, fresh air amount, etc.).
			Long press	Displays the current status of each air conditioner component according to configuration. The display and marking system is described in Chapter 10.
5		Plus	Short press	Allows increasing the selected parameter's required value (temperature, speed, fresh air amount, etc.).
			Long press	Displays the current values of all the air conditioner sensors measuring units according to the configuration (temperature, humidity, air quality, etc.). The display and marking system is described in Chapter 11.
6		OK	Short press	Validates and simultaneously terminates entering the selected parameter's values.
7		Fan	Short press	Setting the fan speed within the preset speed range of the controller modes if enabled in the configuration.
8		Dampers / Mod2	Short press	Setting the amount of fresh air for the current mode until next mode change if enabled in configuration. When entering password, it switches between the values of the room device configuration etc.
9		Three presses	Short press	Setting the air conditioner configuration and operating parameters. The display and marking system is described in the separate documentation of "KJ Mandik Parameterisation from POL822 Room Device".
10		Four presses	Short press	Setting the internal communication parameters of the room device.

3 Control

Input password	Three-presses of the Plus , Minus , and Mod2 buttons will show a screen to enter four-digit service password. The password's individual flashing digits are circularly changed with the Plus and Minus buttons and confirmed with the Mod2 button. When the service password is entered correctly,  icon appears on the screen, and the parameter's identification code in the A-- form to select an identification code. If the input password is entered incorrectly, - - - appears. To return to enter password, press the Mod1 button.
Identification code	After entering the password, the appropriate letter corresponding to the desired parameter group is selected with the Plus and Minus buttons. The letter flashes throughout the selection. By pressing Mod2 button, the entry switches to the flashing number code selection and the Plus and Minus buttons select a specific number corresponding to the parameter in the selected group.
Parameter value change	After selecting the identification code, press the Mod2 button to jump to the parameter value on the next line and that will start flashing. To change the parameter value, use the Plus and Minus buttons. To change the value, press the Mod2 or Mod1 key.
Return to home screen	To return to the Home screen to control the air conditioner, press the Mod1 button repeatedly or automatically after about 30 seconds of button inactivity.

4 Parameters and their identification codes

Desc
ription

The specific range of parameter value change and the possible meaning is given for in the following table each parameter in the **Value** column. In the case of repeated ranges, "**Range_x**" is given in place of the numerical range, followed by the table. The exact meaning of the range values is described in "KJM MANDÍK Measurement & Control System Climatix".

Regulation
of
temperature

Code	Description	Value
A01	Requested temperature for regime Comfort - Summer	-50 .. 50°C
A02	Requested temperature for regime Economy - Summer	-50 .. 50°C
A03	Requested temperature for regime Comfort - Winter	-50 .. 50°C
A04	Requested temperature for regime Economy - Winter	-50 .. 50°C
A05	Requested temperature for regime Tempering by low room temperature - FreezeProtection.	-50 .. 50°C
A06	Compensation - the limit of the high outdoor temperature at which the setpoint temperature begins to shift.	-50 .. 50°C
A07	PID cascade regulation of temperature – proportional	0 .. 999
A10	PID cascade regulation of temperature – integration	0 .. 9999s
A11	Upper limit of cascade regulation.	-50 .. 50°C
A12	Down limit of cascade regulation.	-50 .. 50°C
A13	Hystereze of upper limit of cascade regulation.	-50 .. 50°C
A14	Hystereze of down limit of cascade regulation.	-50 .. 50°C
A15	HysterezeTCh – hystereze of calculated cascade temperature for regimes Heating/Cooling.	-50 .. 50°C
A16	Insensitivity of the supply temperature within the cascading limits.	-50 .. 50°C
A17	Maximal temperature of supply temperature.	-50 .. 300°C
A18	Selection of climate temperature for switching Heating/Cooling.	0– Outdoor 1– Room 2 - Supply 3- Exhaust 4-Preheating 5- Outlet 6- 1Room 2Room Season Contact
A19	Clima intensitivity.	-50 .. 50°C
A20	Temperature shift compared to setpoint.	-50 .. 50°C
A21	DelayTCh – delay of shift Heating/Cooling.	0 .. 9999s
A22	Sequence Delay - A delay in the chain for a lower degree of heating or cooling	0 .. 9999s
A23	Start power delay - switch-on delay of the unit with non-zero starting power.	0 .. 9999s
A24	Requested temperature of preheating.	-50 .. 300°C
A25	Temperature of switching season Summer/Winter	-50 .. 50°C
A26	Delay of switching season Summer/Winter.	0.. 9999min

A27	Delay of regimes.	0 .. 9999s
A28	PTFilter - filter of step change of required supply air temperature.	0 .. 9.99°C/sec
A29	Starting delay.	0 .. 9999min

**Temperatures
– assignment
I/O**

Code	Temperature		Value
A40	Outdoor	Selection of controller physical input for sensor.	Range_1
A41		Temperature correction.	-30 .. 50°C
A42		Smoothing constant.	0 – 9999s
A43	Supply preheating	Selection of controller physical input for sensor.	Range_1
A44		Temperature correction.	-30 .. 50°C
A45		Smoothing constant.	0 – 9999s
A46	Supply room	Selection of controller physical input for sensor.	Range_1
A47		Temperature correction.	-30 .. 50°C
A48		Smoothing constant.	0 – 9999s
A49	Supply after recuperation	Selection of controller physical input for sensor.	Range_1
A50		Temperature correction.	-30 .. 50°C
A51		Smoothing constant.	0 – 9999s
A52	Supply before recuperation	Selection of controller physical input for sensor.	Range_1
A53		Temperature correction.	-30 .. 50°C
A54		Smoothing constant.	0 – 9999s
A55	Outlet after recuperation	Selection of controller physical input for sensor.	Range_1
A56		Temperature correction.	-30 .. 50°C
A57		Smoothing constant.	0 – 9999s
A58	Supply heating water	Selection of controller physical input for sensor.	Range_1
A59		Temperature correction.	-30 .. 50°C
A60		Smoothing constant.	0 – 9999s
A61	Waste heating water	Selection of controller physical input for sensor.	Range_1
A62		Temperature correction.	-30 .. 50°C
A63		Smoothing constant.	0 .. 9999s
A64	Supply cooling water	Selection of controller physical input for sensor.	Range_1
A65		Temperature correction.	-30 .. 50°C
A66		Smoothing constant.	0 .. 9999s
A67	Waste cooling water	Selection of controller physical input for sensor.	Range_1
A68		Temperature correction.	-30 .. 50°C
A69		Smoothing constant.	0 .. 9999s
A70	Room 1	Selection of controller physical input for sensor.	Range_1
A71		Temperature correction.	-30 .. 50°C
A72		Smoothing constant.	0 .. 9999s
A73	Room 2	Selection of controller physical input for sensor.	Range_1
A74		Temperature correction.	-30 .. 50°C
A75		Smoothing constant.	0 .. 9999s
A76	Exhaust	Selection of controller physical input for sensor.	Range_1
A77		Temperature correction.	-30 .. 50°C
A78		Smoothing constant.	0 .. 9999s
A79	Outlet	Selection of controller physical input for sensor.	Range_1
A80		Temperature correction.	-30 .. 50°C
A81		Smoothing constant.	0 .. 9999s

A82		Selection of controller physical input for sensor.	Range _1
A83	Flue gas	Temperature correction.	-30 .. 50°C
A84		Smoothing constant.	0 .. 9999s
A85		Room controller	Temperature correction.
A86	Room controller	Smoothing constant.	0 .. 9999s
A87	Room	Calculated room temperature in case of more room sensors.	0-Average 1-Max 2-Min 3-1.sensor 4-2.sensor 5-SummerMin 6-WinterMin

Fans	Code	Description	Value	
Supply fan	B01	Speed in regime Comfort - Summer.	0 ..100%	
	B02	Speed in regime Economy – Summer.	0 ..100%	
	B03	Speed in regime Comfort - Winter.	0 ..100%	
	B04	Speed in regime Economy – Winter.	0 ..100%	
	B05	Pressure in regime Comfort.	0 .. 9999Pa	
	B06	Pressure in regime Economy.	0 .. 9999Pa	
	B07	Air quantity on regime Comfort. (10x)	0 .. 9999 m3/h (10x)	
	B10	Air quantity on regime Economy. (10x)	0 .. 9999 m3/h (10x)	
	B11	PID speed regulation – proportional component.	0 .. 9999	
	B12	PID speed regulation – integration component.	0 .. 9999s	
	B13	k - factor	0 .. 9999	
	B14	Starting ramp.	0 .. 9999s	
	B15	Ramp down ramp.	0 .. 9999s	
	B16	Minimum speed.	0 ..100%	
	B17	Power-on delay.	0 .. 9999s	
	Exhaust fan	B18	Speed in regime Comfort - Summer.	0 ..100%
		B19	Speed in regime Economy – Summer.	0 ..100%
B20		Speed in regime Comfort - Winter.	0 ..100%	
B21		Speed in regime Economy – Winter.	0 ..100%	
B22		Pressure in regime Comfort.	0 .. 9999Pa	
B23		Pressure in regime Economy.	0 .. 9999Pa	
B24		Air quantity on regime Comfort. (10x)	0 .. 9999 m3/h (10x)	
B25		Air quantity on regime Economy. (10x)	0 .. 9999 m3/h (10x)	
B26		PID speed regulation – proportional component.	0 .. 9999	
B27		PID speed regulation – integration component.	0 .. 9999s	
B28		k - factor	0 .. 9999s	
B29		Starting ramp.	0 .. 9999s	
B30		Ramp down ramp.	0 .. 9999s	
B31		Minimum speed.	0 ..100%	
Compensation of mixing	B32	Authorisation.	0- No 1- Supply 2- Exhaust 3- Both	
Compensation of speed for supply temperature.	B33	Authorisation.	0- No 1- Supply 2- Exhaust 3- Both	
	B34	Deviation from the requested supply	-20 .. 20°C	
	B35	Supply temperature shift.	-20 .. 20°C	
	B36	End of delay.	0 .. 9999s	
	B37	PID speed regulation – proportional component.	0 .. 9999	
	B38	PID speed regulation – integration component.	0 .. 9999s	

Fans -
assignment
I/O

B39		Cooling failure.	0 - Regime 1 - Comp	
B40		Defrosting of condensate unit.	0 - Regime 1 - Comp	
B41		Heating failure.	0 - Regime 1 - Comp	
B42	Authorization of running for regimes heating, cooling and ventilation.		1- All 2- Heat+ 3 Cool+ 4 - Heat 5 - Cool	
B43	Ventilation	Fans.	0 - Supply 1 - Exhaust 2 - Both	
B44		Speed.	0 ..100%	
B45	Turning off.	Temperature shift.	0 .. 50°C	
B46		Delay.	0 .. 9999s	
B47	Supply fan	Operating	Selection of the digital input of the controller.	Range_2
B48			Polarity of digital controller input.	Range_3
B49		Service switcher	Selection of the digital input of the controller.	Range_2
B50			Polarity of digital controller input.	Range_3
B51		Signalization of flow	Selection of the digital input of the controller.	Range_2
B52			Polarity of digital controller input.	Range_3
B53		Pressure sensor	Selection of the analogue input of the controller.	Range_4
B54			Range of sensor.	0 .. 9999Pa
B55			Smoothing constant.	0 .. 9999s
B56			Pressure correction.	0 .. 9999Pa
B57		Flow sensor	Selection of the analogue input of the controller.	Range_4
B58			Range of sensor.	0 .. 9999m3/h (10x)
B59			Smoothing constant.	0 .. 9999s
B60			Quantity correction.	0 .. 9999m3/h (10x)
B61		Requested speed	Selection of the analogue input of the controller.	Range_4
B62			Smoothing constant	0 .. 9999s
B63			Quantity correction.	0 .. 100%
B64		Operating	Selection of the digital input of the controller.	Range_2
B65			Polarity of digital controller input.	Range_3

B66	Exhaust fan	Service switcher	Selection of the digital input of the controller.	Range_2
B67			Polarity of digital controller input.	Range_3
B68		Signalization of flow	Selection of the digital input of the controller.	Range_2
B69			Polarity of digital controller input.	Range_3
B70		Pressure sensor	Selection of the analogue input of the controller.	Range_4
B71			Range of sensor.	0 .. 9999Pa
B72			Smoothing constant.	0 .. 9999s
B73			Pressure correction.	0 .. 9999Pa
B74		Flow sensor	Selection of the analogue input of the controller.	Range_4
B75			Range of sensor.	0 .. 9999m3/h (10x)
B76			Smoothing constant.	0 .. 9999s
B77			Quantity correction.	0 .. 9999m3/h (10x)
B78		Requested speed	Selection of the analogue input of the controller.	Range_4
B79			Smoothing constant	0 .. 9999s
B80			Quantity correction.	0 .. 100%

Filters	Code	Description	Value	
	F01	Supply filter 1	Alarm limit – dirty, only report.	0 .. 9999Pa
F02	Alarm limit – blocked, unit shutdown.		0 .. 9999Pa	
F03	Alarm limit selection.		0 – Report 1- Turn off	
F04	Alarm delay.		0 .. 9999s	
F05	Supply filter 2	Mez alarmu – Špinavý, pouze zpráva.	0 .. 9999Pa	
F06		Alarm limit – blocked, unit shutdown.	0 .. 9999Pa	
F07		Alarm limit selection.	0 – Report 1- Turn off	
F10		Alarm delay.	0 .. 9999s	
F11	Exhaust filter 1	Alarm limit – dirty, only report.	0 .. 9999Pa	
F12		Alarm limit – blocked, unit shutdown.	0 .. 9999Pa	
F13		Volba meze alarmu.	0 – Report 1- Turn off	
F14		Alarm delay.	0 .. 9999s	
F15	Exhaust filter 2	Alarm limit – dirty, only report.	0 .. 9999Pa	
F16		Alarm limit – blocked, unit shutdown.	0 .. 9999Pa	
F17		Volba meze alarmu.	0 – Report 1- Turn off	
F18		Alarm delay.	0 .. 9999s	
F19	Grease filter	Alarm limit – dirty, only report.	0 .. 9999Pa	
F20		Alarm limit – blocked, unit shutdown.	0 .. 9999Pa	
F21		Volba meze alarmu.	0 – Report 1- Turn off	
F22		Alarm delay.	0 .. 9999s	
Filters – Assignmen I/O	F23	Supply filter 1	Selecting controller digital input.	Range_2
	F24		Controller digital input polarity.	Range_3
	F25		Selecting controller analogue input.	Range_4
	F26		Sensor range.	0 .. 9999Pa
	F27	Supply filter 2	Selecting controller digital input.	Range_2
	F28		Controller digital input polarity.	Range_3
	F29		Selecting controller analogue input.	Range_4
	F30		Rozsah čidla.	0 .. 9999Pa
	F31	Exhaust filter 1	Selecting controller digital input.	Range_2
	F32		Controller digital input polarity.	Range_3
	F33		Selecting controller analogue input.	Range_4
	F34		Sensor range.	0 .. 9999Pa
	F35	Exhaust filter 2	Selecting controller digital input.	Range_2
	F36		Controller digital input polarity.	Range_3
	F37		Selecting controller analogue input.	Range_4
	F38		Sensor range.	0 .. 9999Pa
	F39	Grease filter	Selecting controller digital input.	Range_2
	F40		Controller digital input polarity.	Range_3
	F41		Selecting controller analogue input.	Range_4
	F42		Sensor range.	0 .. 9999Pa

Dampers	Code	Description	Value
	C01	Supply damper	Control signal.
	C02		Opening time from 0 to 100%.
	C03	Exhaust damper	Control signal.
	C04		Opening time from 0 to 100%.
	C05	Mixing damper	Control signal.
	C06		Opening time from 0 to 100%.
	C07	Control mode in Comfort mode.	0– Fixed 1- Lineary POL Requested
	C10	Control mode in Economy mode.	
	C11	Value for control selection Fixed in regime Comfort- Summer.	0 .. 100%
	C12	Value for control selection Fixed in regime Economy- Summer.	0 .. 100%
	C13	Value for control selection Fixed in regime Comfort- Winter.	0 .. 100%
	C14	Value for control selection Fixed in regime Economy- Winter.	0 .. 100%
	C15	Control temperature for control selection - Lineary.	0-Outdoor 1- Preheating BefRecup Room Supply AfRecup
	C16	Temperature for minimum quantity of fresh air in heating mode by control selection Lineary.	-50 .. 100°C
	C17	Temperature for maximum quantity of fresh air in heating mode by control selection Lineary	-50 .. 100°C
	C18	Temperature for minimum quantity of fresh air in cooling mode by control selection Lineary.	-50 .. 100°C
	C19	Temperature for maximum quantity of fresh air in cooling mode by control selection Lineary	-50 .. 100°C
	C20	Order in the heating chain.	Ne, 1 .. 10
	C21	Order in the cooling chain	Ne, 1 .. 10
	C22	PID regulation of temperature– proportional.	0 .. 999
	C23	PID regulation of temperature – integration part.	0 .. 9999s
	C24	Minimum of fresh air in Comfort regime.	0 .. 100%
	C25	Minimum of fresh air in Economy regime.	0 .. 100%
	C26	Minimum of fresh air in by defrosting.	0-No, 1-Yes

Recuperation	Code	Description	Value
Recuperation	C28	Control signal.	Range_9
	C29	Opening time from 0 to 100%.	0 .. 9999s
	C30	Order in the heating chain.	No, 1 .. 10
	C31	Order in the cooling chain	No, 1 .. 10
	C32	PID regulation of temperature– proportional.	0 .. 999
	C33	PID regulation of temperature – integration part.	0 .. 9999s
	C34	Minimal anti-freeze temperature.	-50 .. 50°C
	C35	Maximal anti-freeze pressure drop.	0 .. 9999Pa
	C36	Minimal speed of rotary exchanger.	0 .. 100%
	C37	Maximal speed of rotary exchanger.	0 .. 100%
	C38	Recuperator speed sensor time interval.	0 .. 9999s
Recuperation – assignment I/O	C39	Selects the digital input of the controller for the signal from the frequency converter.	Range_2
	C40	Polarity of digital input of the controller for the signal from the frequency converter.	Range_3
	C41	Selects the digital input of the controller for the speed sensor.	Range_2
	C42	Polarity of digital input of the controller for the speed sensor.	Range_3
	C43	Selects the digital input of the controller for the manostat.	Range_2
	C44	Polarity of digital input of the controller for the manostat.	Range_3
	C45	Selects the analogue input of the controller for the pressure sensor.	Range_4
	C46	Sensor range.	0 .. 9999Pa
	C47	Smoothing constant.	0 .. 9999s
	C48	Pressure correction.	0 .. 9999Pa

	Code	Description	Value
Glycol	C51	Control signal.	Range_9
	C52	Opening time from 0 to 100%.	0 .. 9999s
	C53	Minimal power for turning on of pump.	0 .. 100%
	C54	Order in the heating chain.	No, 1 .. 10
	C55	Order in the cooling chain	No, 1 .. 10
	C56	PID regulation of temperature– proportional.	0 .. 999
	C57	PID regulation of temperature – integration	0 .. 9999s
	C58	Minimal pressure in circuit for refuelling.	0 .. 9999Pa
	C59	Maximum anti-freezing pressure drop.	0 .. 9999Pa
Glycol – assignment I/O	C60	Termocontact of pump	Selecting the controller digital input.
	C61		Controller digital input polarity.
	C62	Pressure in glycol circuit	Controller analogue input selection.
	C63		Sensor range.
	C64		Smoothing constant.
	C65		Pressure correction.
	C66	Freezing of coil	Selects the digital input of the controller for the manostat.
	C67		Polarity of digital input of the controller for the manostat.
	C68		Selects the analogue input of the controller for the pressure sensor.
	C69		Sensor range.
	C70		Smoothing constant.
	C71		Pressure correction.

	Code	Description	Value	
Water heating	D01	Control signal.	Range_9	
	D02	Opening time from 0 to 100%.	0 .. 9999s	
	D03	Minimal power for turning on of pump.	0 .. 100%	
	D04	Order in the heating chain.	No, 1 .. 10	
	D05	PID regulation of temperature-proportional component	0 .. 999	
	D06	PID regulation of temperature – integration component.	0 .. 9999s	
	D07	Minimal temperature of heating water.	6 .. 64°C	
	D10	Requested temperature of heating water.	-50 .. 100°C	
	D11	Control parameters	Outdoor temperature lower limit.	-20 .. 10°C
	D12		Power for temperature lower limit.	0 .. 100%
	D13	Preheating	Outdoor temperature upper limit.	-20 .. 10°C
	D14		Power for lower limit temperature.	0 .. 100%
	D15		Constant heating time.	0 .. 9999s
	D16		Overrun temperature gradient.	0..999%/min
	D17		Speed compensation.	0 – No 1 – Yes 2 – Only
	D18		Switching on the pump outside the power requirement.	0– Normal 1– LowTo 2– Heat
	Water heating – assignment I/O	D19	Weekly pump rotation.	0 – No 1 – Yes
		D20	Pump	Selecting the controller's digital input of pump engine thermocontact
D21		Controller digital input polarity.		Range_3
D22		Anti-freeze protection	Selecting the controller's digital input.	Range_2
D23			Controller digital input polarity.	Range_3
Boiler room		D24	Conditions of preparation of heating water	Turn the boiler room on.
	D25	Switch on at low heating water temperature indicated by water heating.		0 – No 1 – Yes
	D26	Outdoor temperature lower limit		-20 .. 50°C
	D27	Turn on at low outdoor temperature.		0 – No 1 – Winter 2- Heat 3 – Always
	D28	Minimum difference outdoor temperature.		-20 .. 50°C
	D29	Switch on based on difference between requested and outdoor temperature.		0– No 1– Winter 2- Heat 3 – Always
	D30	Minimum capacity of the condensing unit for the requirement to switch the boiler room on.		0 .. 100%

D31		Switching on when the minimum capacity of the condensing unit is exceeded.	0 – No 1 – Winter 2 – Always
D32		Fan start delay from switch-on the boiler room.	0 .. 9999min
D33		Fan start delay.	0 – No 1 – Winter 2 - Always
D34		Boiler room switch-on delay.	0 .. 9999min

	Code	Description	Value
Elektric heating	D35	Contactor in heating mode permanently switched on.	0 – No 1 – Yes
	D36	Delay on or off for the next stage.	0.. 9999min
	D37	Maximum power	0 .. 100%
	D38	Minimum power of heating stage switch- on.	0 .. 100%
	D39	Order in the heating chain.	No, 1 .. 10
	D40	PID temperature control-proportional part.	0 .. 999
	D41	PID temperature control – integration part.	0 .. 9999s
	D42	1 st degree power.	0 .. 99kW
	D43	2 nd degree power.	0 .. 99kW
Elektric heating– Assignment I/O	D44	Controller digital input selection for 1 st stage	Range_2
	D45	Controller digital input polarity.	Range_3
	D46	Controller digital input selection for 2 nd stage.	Range_2
	D47	Controller digital input polarity.	Range_3

	Code	Description	Value	
Gas heating	D51	Valve opening time from 0 to 100%.	0 .. 9999s	
	D52	Maximum power.	0 .. 100%	
	D53	Order in the heating chain.	No, 1 .. 10	
	D54	PID supply temperature control - proportional component.	0 .. 999	
	D55	PID supply temperature control - integration component.	0 .. 9999s	
	D56	Maximum flue gas temperature.	-50 .. 300°C	
	D57	Flue gas start temperature.	-50 .. 300°C	
	D58	Off delay.	0 .. 9999s	
	D59	PID flue gas temperature control - proportional component.	0 .. 999	
	D60	PID flue gas temperature control - integration component.	0 .. 9999s	
	D61	Control signal.	Range_9	
Exchanger damper	D62	Requested flue gas temperature.	-50 .. 300°C	
	D63	Requested exchanger pressure drop.	0 .. 9999Pa	
	D64	PID control - proportional component.	0 .. 999	
	D65	PID control - integration component.	0 .. 9999s	
	D66	Outdoor temperature for switching on tempering.	-50 .. 300°C	
Convector	D67	Tempering on.	0–BurnerOn 1–Always 2–BurnerOff	
	D68	On or Off Delay.	0.. 9999min	
	D69	Controller digital input selection for fault.	Range_2	
Gas heating – assignment I/O	Burner	D70	Controller digital input polarity for fault.	Range_3
		D71	Selection of digital controller input for	Range_2
		D72	Controller digital input polarity for operation.	Range_3
		D73	Controller analogue input selection.	Range_4
Pressure drop	D74	Sensor range.	0 .. 9999Pa	
	D75	Smoothing constant.	0 .. 9999s	
	D76	Pressure correction.	0 .. 9999Pa	

	Code	Description	Value
Water cooling	E01	Control signal.	Range_9
	E02	Opening time from 0 to 100%.	0 .. 9999s
	E03	Minimal power for turning on of pump.	0 .. 100%
	E04	Order in the heating chain.	No, 1 .. 10
	E05	PID regulation of temperature-proportional component	0 .. 999
	E06	PID regulation of temperature – integration component.	0 .. 9999s
Water cooling – assignment I/O	E07	Pump permanently on in cooling mode.	0 – No 1 - Yes
	E10	Digital input selection of controller of pump engine thermocontact.	Range_2
	E11	Controller digital input polarity.	Range_3

Condensate unit	Code		Value	
Condensate unit	E15	Control parameters	Condensing unit permanently switched on with air conditioner start.	0 – Yes 1 – No
	E16		Maximum performance.	0 .. 100%
	E17		Delay on switching on condensate unit. *)	0.. 9999min
	E18		Delay on switching off condensate unit.	0.. 9999min
	E19		Power which the condensing unit turns off. *)	0 .. 10V
	E20		Control temperature.	0-Room 1- Exhaust 2-Supply
	E21		Minimum outdoor temperature at which the condensing unit will still cool. *)	-50 .. 50°C
	E22		Minimum outdoor temperature at which the condensing unit will still heat. *)	-50 .. 50°C
	E23		Block heating in summer or block cooling in winter.	0 – No 1 – Yes
	E43		Switching cooling or heating outputs on according to power or state heating/cooling. *)	0 – Power 1 - Clima
	E25		Order in the heating chain.	No, 1 .. 10
	E26		Order in the cooling chain.	No, 1 .. 10
	E27		PID temperature component.	0 .. 999
	E28		PID temperature control - integration	0 .. 9999s
	E29		Change the control voltage from 0-10V to 10-0V in heating mode. *)	0– No 1– Yes
	E30		Change the control voltage from 0-10V to 10-0V in cooling mode. *)	0– No 1–Yes
	Condensate unit – assignment I/O		E31	Signalization
E32		Digital controller input polarity for operation.	Range_3	
E33		Controller digital input selection for failure.	Range_2	
E34		Digital controller input polarity for failure.	Range_3	
E35		Controller digital input selection for defrost.	Range_2	
E36		Digital controller input polarity for defrost.	Range_3	
		*) Specific parameter by type of condensate unit		

	Code		Value
Air quality	E41	Validity.	0– Regime 1– Always 2– Tempering
	E42	Switch on.	0..2000ppm
	E43	Requested.	0..2000ppm
	E44	Allow.	0 – No 1 – Fan 2 – Mixing 3 – Both
	E45	Supply fan power.	0 .. 100%
	E46	Exhaust fan power.	0 .. 100%
	E47	Fresh air quantity.	0 .. 100%
Air quality – assignment I/O	E48	More quality sensors.	0 – Average 1 – Min 2– Max 3– 1.sensor 4– 2.sensor
	E49	Selecting controller digital input.	Range_2
	E50	Controller digital input polarity.	Range_3
	E51	Selecting controller analogue input of the 1st sensor.	Range_4
	E52	Range.	0 .. 9999ppm
	E53	Smoothing constant.	0 .. 9999s
	E54	Correction.	0 .. 9999ppm
	E55	Selecting the controller’s analogue input for the 2nd	Range_4
	E56	Range of the 2nd sensor.	0 .. 9999ppm
	E57	Smoothing constant.	0 .. 9999s
	E58	Correction.	0 .. 9999ppm

	Code	Description	Value
Humidity control	F50	Validity.	0-Regime 1 – Always 2 – Tempering
	F51	Requested humidity in regime Comfort.	0 .. 100%
	F52	Requested humidity in regime Economy.	0 .. 100%
	F53	Switch on upper limit.	0 .. 50%
	F54	Switch off down limit.	-50 .. 50%
	F55	Supply fan power.	0 .. 100%
	F56	Exhaust fan power.	0 .. 100%
	F57	Fresh air quantity.	0 .. 100%
	F58	Passive dehumidifying.	0 – No 1 – Fan 2 – Mixing 3 – Both
	F59	Active dehumidifying.	0 – No 1 – Condensate 2 – HeatPump 3 – Water 4 – All
Humidity control – assignment I/O	F60	Control.	0 – Room 1 – Exhaust 2 – Supply
	F61	PID humidity control - proportional component.	0 .. 999
	F62	PID humidity control - proportional component.	0 .. 9999s
	F63	Power limitation.	0 .. 1.00
	F64	Controller digital input selection.	Range_2
	F65	Controller digital input polarity.	Range_3
	F66	Controller analogue input selection of room sensor.	Range_4
	F67	Smoothing constant.	0 .. 9999s
	F68	Correction.	0 .. 100%
	F69	Controller analogue input selection of supply sensor	Range_4
	F70	Smoothing constant.	0 .. 9999s
	F71	Correction.	0 .. 100%
	F72	Controller analogue input selection of outdoor sensor.	Range_4
	F73	Smoothing constant.	0 .. 9999s
	F74	Correction.	0 .. 100%
	F75	Controller analogue input selection of exhaust sensor.	Range_4
	F76	Smoothing constant.	0 .. 9999s
F77	Correction.	0 .. 100%	

Fire dampers	Code	Description	Value
	G25	Opening.	0 .. 9999s
G26	Off regime.	0 – Open 1 – Close	
Fire dampers - assignment I/O	G27	Digital controller input selection - 1. damper open.	Range_2
	G28	Digital controller input polarity - 1. damper open.	Range_3
	G29	Digital controller input selection - 1. damper closed.	Range_2
	G30	Digital controller input polarity - 1. damper closed.	Range_3
	G31	Digital controller input selection - 2. damper open.	Range_2
	G33	Digital controller input polarity - 2. damper open.	Range_3
	G34	Digital controller input selection - 2. damper closed.	Range_2
G35	Digital controller input polarity - 2. damper closed.	Range_3	

Ventilation	Code	Description	Value
	F81	Requested temperature.	-50 .. 50°C
F82	Shift.	-50 .. 50°C	
F83	Minimum outdoor temperature.	-50 .. 50°C	
F84	Minimum ON time.	0 ..9999min	
F85	Temperature condition.	0– No 1– Yes	
F86	Manually.	0 – Off 1 – On	
Ventilation - assignment I/O	F87	Digital input selection.	Range_2
	F88	Polarity.	Range_3

Other

Code		Value
E60	External switchers.	0 – OFF 1 – ON
E61	Regime OFF importance.	0 – OFF 1 – Temper
E62	Room button.	0 .. 9999min
E63	Type of switcher.	0 – Contact 1 – Pulse
E64	Next service.	0– No 1– InYear 2– In6Months 3– In3Months 4– InMonth
E65	Service light.	0 – Light 1 – Flash
E66	Failure light.	0 – Light 1 – Flash 2 – Both
E67	Digital controller input selection for 1st switcher.	Range_2
E68	Digital controller input polarity for 1st. switcher.	Range_3
E69	Digital controller input selection for 2nd switcher.	Range_2
E70	Digital controller input polarity for 2nd switcher.	Range_3
E71	Digital controller input selection for 3rd switcher.	Range_2
E72	Digital controller input polarity for 3rd switcher.	Range_3
E73	Physical controller input selection for requested temperature from control panel.	Range_4
E74	Minimum value from control panel.	-50 .. 50°C
E75	Maximum value from control panel.	-50 .. 50°C
E76	Smoothing constant.	0 – 9999s
E77	Correction.	-30 .. 50°C
E78	Digital controller input selection for BMS	Range_2
E79	Digital controller input polarity for BMS.	Range_3
E80	Digital controller input selection for alarm confirmation.	Range_2
E81	Digital controller input polarity for alarm confirmation.	Range_3
E82	Digital controller input selection for Fire-EFS.	Range_2
E83	Digital controller input polarity for Fire-EFS.	Range_3
E84	Digital controller input selection for 1st Smoke sensor.	Range_2
E85	Digital controller input polarity for 1st Smoke sensor.	Range_3
E86	Digital controller input selection for 2nd Smoke sensor.	Range_2
E87	Digital controller input polarity for 2nd Smoke sensor.	Range_3

Other –
assignment
I/O

Device testing

Code	Description	Value
G01	Allow.	0 – No 1 – Yes
G02	Supply fan speed.	0 .. 100%
G03	Exhaust fan speed.	0 .. 100%
G04	Supply,exhaust and mixing damper position inversely.	0 .. 100%
G05	Recuperation power.	0 .. 100%
G06	Glycol power.	0 .. 100%
G07	Water heating power.	0 .. 100%
G10	Electric heating power.	0 .. 100%
G11	Gas heating power.	0 .. 100%
G12	Gas heating bypass damper position.	0 .. 100%
G13	Water cooling power.	0 .. 100%
G14	Condensate unit operation.	0 – Cool 1 – Heat
G15	Condensate unit power.	0 .. 100%
G16	Heat pump operation.	0 – Cool 1 – Heat
G17	Heat pump power.	0 .. 100%
G18	Humidifier power.	0 .. 100%
G19	Fire dampers.	0 – Open 1 – Close

Analogue and digital input assignment	POL4xx		Digital outputs	Q1 - Controlled KJ component.	Range_7
	H01				Q1 - polarity.
H02			Q3 - Controlled KJ component.	Range_7	
H03			Q3 - polarity.	Range_3	
H04			Q4 - Controlled KJ component.	Range_7	
H05			Q4 - polarity.	Range_3	
H06			Q5 - Controlled KJ component.	Range_7	
H07			Q5 - polarity.	Range_3	
H10			Q6 - Controlled KJ component.	Range_7	
H11			Q6 - polarity.	Range_3	
H12			DO1 - controlled KJ component.	Range_7	
H13			DO1 - polarity.	Range_3	
H14			DO2 - controlled component KJ.	Range_7	
H15			DO2 - polarity.	Range_3	
H16			X3 - Controlled KJ component.	Range_8	
H17			X3 - Fixed value for KJ "Set" component selection.	0 .. 100%	
H18			X4 - Controlled KJ component.	Range_8	
H19			X4 - Fixed value for KJ "Set" component selection.	0 .. 100%	
H20			X5 - Controlled KJ component.	Range_8	
H21			X5 - Fixed value for KJ "Set" component selection.	0 .. 100%	
H22					
H23		POL63x	Digital outputs	Q1 - Controlled KJ component.	Range_7
H24				Q1 - polarity.	Range_3
H25				Q2 - Controlled KJ component.	Range_7
H26				Q2 - polarity.	Range_3
H27				Q3 - Controlled KJ component.	Range_7
H28				Q3 - polarity.	Range_3
H29			Q4 - Controlled KJ component.	Range_7	
H30			Q4 - polarity.	Range_3	
H31			Q5 - Controlled KJ component.	Range_7	
H32			Q5 - polarity.	Range_3	
H33			Q6 - Controlled KJ component.	Range_7	
H34			Q6 - polarity.	Range_3	
H35			Analogue outputs	Y1 - controlled KJ component.	Range_8
H36				Y1 - fixed value for KJ "Set" component selection.	0 .. 100%
H37				Y2 - controlled component KJ.	Range_8
H38				Y2 - fixed value for KJ "Set" component selection.	0 .. 100%
H39				X3 - Controlled KJ component.	Range_8
H40				X3 - pevná hodnota pro volbu komponenty KJ „Set“.	0 .. 100%
H41		X4 - ovládaná komponenta KJ.		Rozsah_8	

H42			X4 - Controlled KJ component.	Range_8
H43			X4 - Fixed value for KJ “Set” component selection.	0 .. 100%
H44			X5 - Controlled KJ component.	Range_8
H45			X5 - Fixed value for KJ “Set” component selection.	0 .. 100%
H46			X6 - Controlled KJ component.	Range_8
H47			X6 - Fixed value for KJ “Set” component selection.	0 .. 100%
H48			X7 - Controlled KJ component.	Range_8
H49			X7 - Fixed value for KJ “Set” component selection.	0 .. 100%
H50			X8 - Controlled KJ component.	Range_8

Device configuration	Code		Value
	I01	Requested temperature.	1– No 2– Supply 3 – Room 4– Exhaust 5–Preheating 6 – Waste
	I02	Room controller.	0 – No 1 – POL822 2 – OP41tep 3 – OP41Ven 4 – OP70
	I03	Room temperature.	0 – No 1 – 1 2 – 2
	I04	Supply temperature.	0 – No 1 – Supply 2 –Preheating 3 – Both
	I05	Flue gas temperature.	0 – No 1 – Yes
	I06	Outdoor temperature.	0 – No 1 – Yes
	I07	Temperatures around the recuperator.	0 – No 1 – Waste 2 –Preheating 3 - After 4–Waste+Preh 5–Waste+After 6–Preh+After 7–All
	I10	Heating water temperature.	0 – No 1 – Exhaust 2 – Supply 3 – Both
	I11	Cooling water temperature	0 – No 1 – Exhaust 2 – Supply 3 – Both
	I12	Exhaust temperature.	0 – No 1 – Exhaust 2 – Waste 3 – Both
	I13	Humidity control.	0– No 1– Dehumidifying 2 – Humidifying 3 – Both
	I14	Humidity 2 3 4 1st humidity sensor.	0– DI-High 1– DI-Low 2– Room 3 – Exhaust 4 - Both
	I15	5 6 2nd humidity sensor.	0– No 1– Supply 2– Outdoor

			4 – Both
I16		Air quality.	0 – No 1 – DI 2 – AI 3 – 2xAI
I17	Dampers	Supply damper.	0 – No 1 – Unit 2 – Mixing 3 – Contact
I18		Mixing damper.	0 – No 1 – Yes
I19		Exhaust damper.	0 – No 1 – Unit 2 – Mixing 3 – Contact
I20	Filters	Supply filter.	0 – No 1 – DI 2 – AI 3 – 2xDI 4 – 2XAI
I21		Grease filter.	0 – No 1 – DI 2 – AI
I22		Exhaust filter.	0 – No 1 – DI 2 – AI 3 – 2xDI 4 – 2XAI
I23	Supply fan	Type and kind of communication.	0– No 1– Yes 2– FM-MB 3– EC-MB
I24		Air quantity control source.	0– Regime 1– Pressure 2– Directly 3 – POLv1 4– POLv2 5– AMR 6– CPM-WRF
I25	Exhaust fan	Type and kind of communication.	0– No 1– Yes 2- Togeth 3– FM-MB 4– EC-MB
I26		Air quantity control source.	0– Regime 1– Pressure 2– Directly 3 – POLv1 4– POLv2 5– AMR 6– CPM-WRF F
I27	Recuperator.		0– No 1– Plate 2 – Rotary 3 – RotaryZV

I28	Glycol.		0 – No 1 – Yes 2 – Steam
I29	Water heating	Supply damper.	0 – No 1 – Yes 2 – Steam
I30		Boiler room.	0 – No 1 – Yes
I31	Electric heating.		0 – No 1 – 1S-1M 2 – 2S-1M 3 – 2S-2M
I32	Gas heater	Kind of burner.	0 – No 1 – Mode 2 – 1st 3 – 2st
I33		Exchanger damper.	0 – No 1 – Temperature 2 – Pressure
I34	Water cooling.		0 – No 1 – Independently 2 – w. Heating 3 – 2w. Heating
I35	Condensate unit	Type and control.	0 – Modulant 1 – ANL2WIRE 2 – FDP3 3 – EKEQFCB 4 – PAC-IF
I36	Control source.		0 – No 1 – 1xC/H 2 – 2xC/H 3 – 3xC/H 4 – 4xC/H 5 – 1xC 6 – 2xC 7 – 3xC 8 – 4xC
I38	Ventilation.		0 – No 1 – Yes
I39	Fire dampers	Tracking type.	0 – Motor 1 – Man2C 2 – THC 3 – Man1C
I40		Number.	0 – No 1 – 1 2 – 2
I41	External mode and function switch		0 – No 1 – Regimes 2 – Regimes2 3 – 2xPlace 4 – WRF 5 – CPM 6 – 3xSpeed
I42	Energy balance		0 – No 1 – Yes

I43	ModBus	POL4xx	0 – No 1 – Local 2 – Service 3 – All
I44		POL63x	0 – No 1 – Local 2 – Service 3 – IP 4 – Loc+Serv 5 – Loc+IP 6 – Serv+IP 7 – All

Controller inputs – type assignment	Code	Description	Value
	I51	POL42x	X1
I52	X2		Range_5
I53	X6		Range_5
I54	X7		Range_5
I55	X8 (only digital input)		Range_5
I56	POL63x	X1	Range_5
I57		X2	Range_5
I58		X3	Range_5
I59		X4	Range_5
I60		X5	Range_5
I61		X6	Range_5
I62		X7	Range_5
I63		X8	Range_5

Work with parameters	Code	Description	Value
	I93	Save parameter settings from the working area to the controller backup area as user parameters.	0 – No 1 – Execute
I94	Load saved user parameters from the backup area to the controller working area.	0 – No 1 – Execute	
I95	Load saved default parameters from the backup area to the controller working area.	0 - No 1 – Execute	

ModBus
Configurati
on

Code	Description		Value	
I64	POL 42x	Address.	0 .. 250	
I65		Local port RS485	Type of device.	0 – Slave 1 – Master
I66			Transfer rate.	Range_6
I67			2 stop bits.	0 – No 1 – Yes
I68			Parity.	0 – Even 1 – Odd 3 – None
I69			Delay.	0 .. 9999s
I70			Response delay.	0 .. 9999s
I71		Service port T-HI	Type of device.	0 – Slave 1 – Master
I72			Transfer rate.	Range_6
I73			2 stop bits.	0 – No 1 – Yes
I74			Parity.	0 – Even 1 – Odd 3 – None
I75			Delay.	0 .. 9999s
I76			Response delay.	0 .. 9999s
I77		POL 63x	Address.	0 .. 250
I78	Local port RS485		Type of device.	0 – Slave 1 – Master
I79			Transfer rate.	Range_6
I80			2 stop bits.	0 – No 1 – Yes
I81			Parity.	0 – Even 1 – Odd 3 – None
I82			Delay.	0 .. 9999s
I83			Response delay.	0 .. 9999s
I84	Service port T-HI		Type of device.	0 – Slave 1 – Master
I85			Transfer rate.	Range_6
I86			2 stop bits.	0 – No 1 – Yes
I87			Parity.	0 – Even 1 – Odd 3 – None
I88			Delay.	0 .. 9999s
I89			Response delay	0 .. 9999s
I90	Ethernet port T-IP		Type of device.	0 – Slave 1 – Master
I91	Terminating resistor.		0 – No 1 – Yes	
I92	Enable ModBus on service port.		0 – No 1 – Yes	

5 Range values

Range_1

Analogue temperature input assignment										
POL42x:										
Value	0	1	2	3	4	5	6	7		
Input	Set	X1	X2	X6	X7	B1	B2	B3		
POL63x:										
Value	0	1	2	3	4	5	6	7	8	9
Input	Set	X1	X2	X3	X4	X5	X6	X7	X8	POL
Value	10	11	12	13	14	15	16	17	18	19
Input	1X1	1X2	AMR	2X1	2X2	2X3	2X4	2X5	2X6	2X7
Value	20	21	22	23	24	25	26	27	28	29
Input	2X8	3X1	3X2	3X3	3X4	3X5	3X6	3X7	3X8	3B1
Value	30	31	32	33	34	35	36	37	38	39
Input	3B2	3B3	4X1	4X2	5X1	5X2	5X3	5X4	5X5	5X6
Value	40	41	42	43	44	45	46	47	48	49
Input	5X7	5X8	6X1	6X2	6X3	6X4	6X5	6X6	6X7	6X8
Value	50	51	52	53						
Input	6B1	6B2	6B3	Int						

Range_2

Digital input assignment										
POL42x:										
Value	0	1	2	3	4	5	6	7		
Input	Off	D1	D2	X1	X2	X6	X7	X8		
POL63x:										
Value	0	1	2	3	4	5	6	7	8	9
Input	Off	D1	D2	D3	D4	D5	X1	X2	X3	X4
Value	10	11	12	13	14	15	16	17	18	19
Input	X5	X6	X7	X8	1X1	1X2	1X3	1X4	2X1	2X2
Value	20	21	22	23	24	25	26	27	28	29
Input	2X3	2X4	2X5	2X6	2X7	2X8	3D1	3D2	3D3	3D4
Value	30	31	32	33	34	35	36	37	38	39
Input	3D5	3X1	3X2	3X3	3X4	3X5	3X6	3X7	3X8	4X1
Value	40	41	42	43	44	45	46	47	48	49
Input	4X2	4X3	4X4	5X1	5X2	5X3	5X4	5X5	5X6	5X7
Value	50	51	52	53	54	55	56	57	58	59
Input	5X8	6D1	6D2	6D3	3D4	3D5	6X1	6X2	6X3	6X4
Value	60	61	62	63						
Input	6X5	6X6	6X7	6X8						

Range_3

Digital input polarity		
Value	0	1
Input	Normal	Invert

Range_4

Voltage analogue input assignment										
POL42x:										
Value	0	1	2	3	4					
Input	Set	X1	X2	X6	X7					
POL63x:										
Value	0	1	2	3	4	5	6	7	8	9
Input	Set	X1	X2	X3	X4	X5	X6	X7	X8	2X1
Value	10	11	12	13	14	15	16	17	18	19
Input	2X2	2X3	2X4	2X5	2X6	2X7	2X8	3X1	3X2	3X3
Value	20	21	22	23	24	25	26	27	28	29
Input	3X4	3X5	3X6	3X7	3X8	5X1	5X2	5X3	5X4	5X5
Value	30	31	32	33	34	35	36	37	38	39
Input	5X6	5X7	5X8	6X1	6X2	6X3	6X4	6X5	6X6	6X7
Value	40									
Input	6X8									

Range_5

Input / output type assignment						
Value	0	1	2	3	4	5
Input	NC	I-DI	I-mA	I-V	I-NI1000	I-PT1000
Value	6	7	8	9	10	11
Input	I-R2500	NTC10K	I-NTC100K	O-DO	O-V	O-mA

Range_6

Transfer speed [baud]						
Value	0	1	2	3	4	5
Speed	110	300	600	1200	2400	4800
Value	6	7	8	9	10	11
Speed	9600	1440	19200	38400	57600	115200

Range_7

Digital output assignment							
Value	0	1	2	3	4	5	6
Component	Set	FanS	FanE	DmpM	Rec	Glc	AGI
Value	7	8	9	10	11	12	13
Component	WtH	EIH	EIH2	-	-	Gs	GsM
Value	14	15	16	17	18	19	20
Component	GsL	WtC	Cnd	CndC	CndH	Cnd2C	Cnd2H
Value	21	22	23	24	25	26	27
Component	Cnd3C	Cnd3H	Cnd1O	Cnd2O	Cnd3O	-	-
Value	28	29	30	31	32	33	34
Component	-	-	-	-	Hum	DmpF	Fire
Value	35	36	37	38	39	40	41
Component	Boil	Red	Cmf	FiE	Srv	-	CnvG
Value	42	43	44	45	46	47	48
Component	Err	Ex1	Ex2	On	-	-	FnO
Value	49	50					
Component	FnE	H/C					

Range_8

Analogue output assignment							
Value	0	1	2	3	4	5	6
Component	Set	FanS	FanE	DmpM	Rec	Glc	WtH
Value	7	8	9	10	11	12	13
Component	EIH	EIH2	DmpS	DmpE	GasH	DmpG	WtC
Value	14	15	16	17	18	19	20
Component	CndU1	CndU2	CndU3	CndU4	-	-	Hum
Value	21	22	23	24	25	26	27
Component	CndCH1	CndCH2	CndCH3	CndCH4	CndOn	AirFl1	AirFl2
Value	28	29	30	31	32	33	34
Component	-	-	-	-	-	-	-
Value	35	36	37	38	39	40	
Component	-	-	-	-	-	-	

Range_9

Control signal				
Value	0	1	2	3
Polarity	0-10V	2-10V	10-0V	10-2V

MANDÍK, a.s.
Dobříšská 550
26724 Hostomice
Czech Republic
Tel.: +420 311 706 706
E-Mail: mandik@mandik.cz
www.mandik.com

The producer reserves the right for innovations of the product. For actual product information see
www.mandik.com