

Measurement and control system KJM MANDÍK
Climatix

Modbus table

for version software 28.01

10/2020

MANDÍK®



ATEX II 2G IIB T4

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Operating mode	Selection	1	R/W	0- Schedule 1- Off 2- Tempering 3- Reduced 4- Comfort
	Current	2	R	0- Off 1- StandbyTempering 2- Reduced 3- Comfort 4- 5-
	Auxiliary	3	R	0- Null 4- FanSpeedCompens 5- Ventilation 7- Preheating 10- Boiler 11- Start 12- BlockFan 13- SuperiorBlock 14- Testing
	Status	865	R	0 - Off 1 - Air 2 - Heat 3 -Cool 4 - Off 5 -Tsup
Desired temperature	In current mode	4	R	Value * 10 (°C)
	Setting for Comfort mode in summer	5	R/W	Value * 10 (°C)
	Setting for Comfort mode in winter	863	R/W	Value * 10 (°C)
	Setting for Reduced mode in summer	6	R/W	Value * 10 (°C)
	Setting for Reduced mode in winter	864	R/W	Value * 10 (°C)
	Setting for Protection mode	7	R/W	Value * 10 (°C)
Alarming	Count active alarm	8	R	Value
	Alarm acknowledge	9	R/W	0-Off / 1-Acknowledge
	Alarm LED	10	R	0- Off 1- Blinking 2- On
Measured temperatures	Behind the recuperator on the exhaust air	11	R	Value * 10 (°C)
	Behind the recuperator on the exhaust air - alarm	12	R	0- OK / 1- Error
	Supply air	13	R	Value * 10 (°C)
	Supply air - alarm	14	R	0- OK / 1- Error
	Preheat air	15	R	Value * 10 (°C)
	Prehaet air - alarm	16	R	0- OK / 1- Error
	Flue gas	17	R	Value * 10 (°C)
	Flue gas - alarm	18	R	0- OK / 1- Error
	Extract air	19	R	Value * 10 (°C)
	Extract air - alarm	20	R	0- OK / 1- Error
	Exhaust air	21	R	Value * 10 (°C)
	Exhaust air - alarm	22	R	0- OK / 1- Error

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Item	Data point	Registry number	Read/Write	Mapping
Measured temperatures	Outdoor	23	R	Value * 10 (°C)
	Outdoor - alarm	24	R	0- OK / 1- Error
	Heating water supplied to the exchanger	25	R	Value * 10 (°C)
	Heating water supplied to the exchanger - alarm	26	R	0- OK / 1- Error
	Heating water returning from the exchanger	27	R	Value * 10 (°C)
	Heating water returning from the exchanger - alarm	28	R	0- OK / 1- Error
	Cooling water supplied to the exchanger	29	R	Value * 10 (°C)
	Cooling water supplied to the exchanger - alarm	30	R	0- OK / 1- Error
	Cooling water returning from the exchanger	31	R	Value * 10 (°C)
	Cooling water returning from the exchanger - alarm	32	R	0- OK / 1- Error
	Room	35	R	Value * 10 (°C)
	Room - alarm	36	R	0- OK / 1- Error
	Room 2	37	R	Value * 10 (°C)
	Room 2 - alarm	38	R	0- OK / 1- Error
	Inlet	47	R	Value * 10 (°C)
	Inlet - alarm	48	R	0- OK / 1- Error
	Behind recuperator on supply air	49	R	Value * 10 (°C)
	Behind recuperator on supply air - alarm	50	R	0- OK / 1- Error
	Room unit	860	R	Value * 10 (°C)
	Room unit - alarm	861	R	0- OK / 1- Error
Internal controller	862	R	Value * 10 (°C)	
Reheat	866	R	Value * 10 (°C)	
Reheat - alarm	867	R	0- OK / 1- Error	
Filter supply air	Pressure	52	R	Value (Pa)
	Select type alarming for digital manostat	53	R/W	0- Info (dirty) 1- Hard (cloged)
	Setting of the filter clogging limit pressure for information message	54	R/W	Value (Pa)
	Setting the filter clogging limit pressure to shut down the unit	55	R/W	Value (Pa)
	State	56	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - alarm	57	R	0- OK / 1- Error
	Operating hours with a dirty filter	58	R	Value
Filter supply air 2	Pressure	59	R	Value (Pa)
	Select type alarming for digital manostat	60	R/W	0- Info (dirty) 1- Hard (cloged)
	Setting of the filter clogging limit pressure for information message	61	R/W	Value (Pa)
	Setting the filter clogging limit pressure to shut down the unit	62	R/W	Value (Pa)
	State	63	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor

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Item	Data point	Registry number	Read/Write	Mapping
Filter supply air 2	Pressure sensor - alarm	64	R	0- OK / 1- Error
	Operating hours with a dirty filter	65	R	Value
Filter extract air	Pressure	69	R	Value (Pa)
	Select type alarming for digital manostat	70	R/W	0- Info (dirty) 1- Hard (cloged)
	Setting of the filter clogging limit pressure for information message	71	R/W	Value (Pa)
	Setting the filter clogging limit pressure to shut down the unit	72	R/W	Value (Pa)
	State	73	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - alarm	74	R	0- OK / 1- Error
Filter extract air 2	Operating hours with a dirty filter	75	R	Value
	Pressure	77	R	Value (Pa)
	Select type alarming for digital manostat	78	R/W	0- Info (dirty) 1- Hard (cloged)
	Setting of the filter clogging limit pressure for information message	79	R/W	Value (Pa)
	Setting the filter clogging limit pressure to shut down the unit	80	R/W	Value (Pa)
	State	81	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
Filter grease	Pressure sensor - alarm	82	R	0- OK / 1- Error
	Operating hours with a dirty filter	83	R	Value
	Pressure	86	R	Value (Pa)
	Select type alarming for digital manostat	87	R/W	0- Info (dirty) 1- Hard (cloged)
	Setting of the filter clogging limit pressure for information message	88	R/W	Value (Pa)
	Setting the filter clogging limit pressure to shut down the unit	89	R/W	Value (Pa)
Air quality	State	90	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - alarm	91	R	0- OK / 1- Error
	Operating hours with a dirty filter	92	R	Value
	State - alarm	109	R	0- OK / 1- Bad
	Current	110	R	Value (ppm)
	Number of hours of operation with poor air quality	111	R	Value
Number of starts airing with poor air quality	112	R	Value	

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Item	Data point	Registry number	Read/Write	Mapping
Air quality	Setpoint start airing - high limit	113	R/W	Value (ppm)
	Setpoint stop airing - low limit	114	R/W	Value (ppm)
	Choice of method airing in poor air quality	115	R/W	0- No 1- Fans 2- Dampers 3- Both
	Setting the supply fan speed for the airing state	116	R/W	Value (%)
	Setting the exhaust fan speed for the airing state	117	R/W	Value (%)
	Setting the amount of fresh air for the airing state	118	R/W	Value (%)
	Choice of unit status to respond to poor air quality	119	R/W	0- UnitOn 1- Always 2- Tempering
	Sensor selection	120	R/W	0- Avg 1- Max 2- Min 3- Sensor 1 4- Sensor 2
	Sensor	121	R	Value (ppm)
	Sensor - alarm	122	R	0- OK / 1- Error
	Sensor 2	123	R	Value (ppm)
	Sensor 2 - alarm	124	R	0- OK / 1- Error
Humidity	State	142	R	0- Off 1- OK 2- Low 3- High 4- Outdoor
	Current	143	R	Value (%)
	Setpoint for Comfort mode	144	R/W	Value (%)
	Setpoint for Reduced mode	145	R/W	Value (%)
	Set the upper setpoint hysteresis - start	146	R/W	Value (%)
	Set the lower hysteresis of the setpoint	147	R/W	Value (%)
	Selecting the state units to respond to the humidity outside the required values	148	R/W	0- UnitOn 1- Always 2- Tempering
	Sensor selection	149	R/W	0- Room 1- Extract 2- Supply
	Selection of components used for active dehumidification	150	R/W	0- No 1- Condens unit 2- Heat pump 3- Water cooler 4- All
	Selection of components used for passive dehumidification	151	R/W	0- No 1- Fans 2- Dampers 3- Both
	Setting the supply fan speed for passive dehumidification	152	R/W	Value (%)

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Item	Data point	Registry number	Read/Write	Mapping
Humidity	Setting the exhaust fan speed for passive dehumidification	153	R/W	Value (%)
	Setting the amount of fresh air in passive dehumidification	154	R/W	Value (%)
	Outdoor sensor	155	R	Value (%)
	Absolute value of the outside air	156	R	Value (g/kg)
	Outdoor sensor - alarm	157	R	0- OK / 1- Error
	Supply air sensor	158	R	Value (%)
	Absolute value of the supply air	159	R	Value (g/kg)
	Supply air sensor - alarm	160	R	0- OK / 1- Error
	Room sensor	161	R	Value (%)
	Absolute value in the room	162	R	Value (g/kg)
	Room sensor - alarm	163	R	0- OK / 1- Error
	Extract air sensor	164	R	Value (%)
	Absolute value of the extract air	165	R	Value (g/kg)
	Extract air sensor - alarm	166	R	0- OK / 1- Error
Glycol	State	181	R	0- Off 1- Cool 2- Heat 6-MediumTemperature 9- NoCool 10- NoHeat 11- Frost 12- Error
	Valve opening	182	R	0-100%
	Operation pump	183	R	0- Off / 1- On
	Pump operating hours	184	R	Value
	Number of pump starts	185	R	Value
	Thermal protection pump - alarm	186	R	0- OK / 1- Error
	Exchanger frost protection - alarm	187	R	0- OK / 1- Error
	Frost protection pressure sensor	188	R	Value (Pa)
	Frost protection pressure sensor - alarm	189	R	0- OK / 1- Error
	Setting limit pressure for frost protection	190	R/W	Value (Pa)
	Operation of make-up pump	191	R	0- Off / 1- On
	Number of starts of make-up pump	192	R	Value
	Setting the minimum glycol pressure	193	R/W	Value (Pa)
	Glycol pressure sensor	194	R	Value (Pa)
	Glycol pressure sensor - alarm	195	R	0- OK / 1- Error
Dampers	Required minimum amount of fresh air in Comfort mode	200	R/W	Value (%)
	Required minimum amount of fresh air in Reduced mode	201	R/W	Value (%)
	Position of supply air damper	202	R	Value (%)
	Position of the mixing flap	207	R	Value (%)
	Position of the exhaust air damper	212	R	Value (%)
	State	213	R	0- Off 1- Mode 2- Humidity 3- AirQuality 4- FrostMin

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Item	Data point	Registry number	Read/Write	Mapping
Dampers				5- waterMin 6- Error
	Selection of sensor for regulation of fresh air volume based	215	R/W	0- Outdoor 1- Preheat 2- BeforeRecup 3- Supply 4- Room 5- AfterRecup
	Setting fixed amount of fresh air for Comfort mode in winter	216	R/W	Value (%)
	Setting fixed amount of fresh air for Reduced mode in winter	217	R/W	Value (%)
	Setting fixed amount of fresh air for Comfort mode in summer	218	R/W	Value (%)
	Setting fixed amount of fresh air for Reduced mode in summer	219	R/W	Value (%)
	Temperature limit for 100% fresh air flow rate when control based on the selected temperature in the heating mode	220	R/W	Value (°C)
	Temperature limit for 0% fresh air flow rate when control based on the selected temperature in the heating mode	221	R/W	Value (°C)
	Temperature limit for 100% fresh air flow rate when control based on the selected temperature in the cooling mode	222	R/W	Value (°C)
	Temperature limit for 0% fresh air flow rate when control based on the selected temperature in the cooling mode	223	R/W	Value (°C)
	Choice of fresh air flow control in Comfort mode	224	R/W	0- Fixed 1- Linearly 2- POL (room unit) 3- Setpoint1 4- Setpoint2
	Choice of fresh air flow control in Reduced mode	225	R/W	0- Fixed 1- Linearly 2- POL (room unit) 3- Setpoint1 4- Setpoint2
	Water heater	Operation pump	231	R
Heating water temperature low - alarm		232	R	0- OK / 1- Error
Valve opening		233	R	0-100%
Heat exchanger frost protection - alarm		234	R	0- OK / 1- Error
Low supply air temperature - alarm		235	R	0- OK / 1- Error
State		236	R	0- Off 2- Heat 3- Humidity 4- LowTempOutdoor 5- LowTempSupply 6- LowTempWater 8- Preheating 10- TempWtrBad

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Item	Data point	Registry number	Read/Write	Mapping
Water heater				11- FrostThermostat 12- Error
	Thermal protection pump - alarm	237	R	0- OK / 1- Error
	Pump operating hours	238	R	Value
	Number of pump starts	239	R	Value
Water cooler	Operation pump	242	R	0- Off / 1- On
	Valve opening	243	R	0-100%
	State	244	R	0- Off 1- Cool 3- Deumid 9- NoCool 12- Error
	Thermal protection pump - alarm	245	R	0- OK / 1- Error
	Pump operating hours	246	R	Value
	Number of pump starts	247	R	Value
	Recuperator	State	251	R
Power		252	R	0-100%
Operation		253	R	0- Off / 1- On
Operating hours		254	R	Value
Number of starts		255	R	Value
Frost protection exchanger - alarm		256	R	0- OK / 1- Error
Frost protection pressure sensor		257	R	Value (Pa)
Frost protection pressure sensor - alarm		258	R	0- OK / 1- Error
Setting limit pressure for frost protection		259	R/W	Value (Pa)
State - feadback - alarm		260	R	0- OK / 1- Error
Condensing unit 1	State	271	R	0- Off 1- Cool 2- Heat 3- Humidity 4- LowTempOutdoor 9- NoCool 10- NoHeat 11- Frost 12- Error
	Power	272	R	0-100%
	Operation	273	R	0- Off / 1- On
	Operating hours	274	R	Value
	State - feadback - alarm	275	R	0- OK / 1- Error
	Number of defrosts	276	R	Value
	Number of starts	277	R	Value
Condensing unit 2	State	279	R	0- Off 1- Cool 2- Heat

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Item	Data point	Registry number	Read/Write	Mapping
Condensing unit 2				3- Humidity 4- LowTempOutdoor 9- NoCool 10- NoHeat 11- Frost 12- Error
	Power	280	R	0-100%
	Operation	281	R	0- Off / 1- On
	Operating hours	282	R	Value
	State - feedback - alarm	283	R	0- OK / 1- Error
	Number of defrosts	284	R	Value
	Number of starts	285	R	Value
Condensing unit 3	State	287	R	0- Off 1- Cool 2- Heat 3- Humidity 4- LowTempOutdoor 9- NoCool 10- NoHeat 11- Frost 12- Error
	Power	288	R	0-100%
	Operation	289	R	0- Off / 1- On
	Operating hours	290	R	Value
	State - feedback - alarm	291	R	0- OK / 1- Error
	Number of defrosts	292	R	Value
	Number of starts	293	R	Value
Condensing unit 4	State	295	R	0- Off 1- Cool 2- Heat 3- Humidity 4- LowTempOutdoor 9- NoCool 10- NoHeat 11- Frost 12- Error
	Power	296	R	0-100%
	Operation	297	R	0- Off / 1- On
	Operating hours	298	R	Value
	State - feedback - alarm	299	R	0- OK / 1- Error
	Number of defrosts	300	R	Value
	Number of starts	301	R	Value
Condensing units	Maximum power	319	R/W	0-100%
	Minimum outdoor temperature blocking cooling	320	R/W	Value (°C)
	Block cooling in winter or heating in summer	321	R/W	0- Ne / 1- Ano
	Minimum outdoor temperature blocking heating	322	R/W	Value (°C)
	Defrost all units - alarm	323	R	0- OK / 1- Error
Electrical heater	Operation	331	R	0- Off / 1- On
	Power	332	R	0-100%

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Item	Data point	Registry number	Read/Write	Mapping
Electrical heater	Maximum power	333	R/W	0-100%
	State	334	R	0- Off 2- Heat 5- HighTempSupply 12- Error
	Number of starts	335	R	Value
	Operating hours	336	R	Value
	State - feadback - alarm	337	R	0- OK / 1- Error
Gas heater	Burner - state	350	R	0- Off 2- Heat 5- HighTempSupply 7- HighTempFlue 10- NoHeat 12- Error
	Burner - operation	351	R	0- Off / 1- On
	Burner - power	352	R	0-100%
	Burner - maximum power	353	R/W	0-100%
	Burner - switch-off delay	355	R/W	Value (s)
	Burner - feadback - alarm	356	R	0- OK / 1- Error
	Burner - error	357	R	0- OK / 1- Error
	Maximum safe flue gas temperature - alarm	358	R	0- OK / 1- Error
	Burner - operating hours	359	R	Value
	Burner - number of turn-on's	360	R	Value
	Exchanger damper - position	361	R	0-100%
	Exchanger convector- operation	366	R	0- Off / 1- On
	Exchanger convector - number of starts	367	R	Value
Supply fan	State	381	R	0- Off 1- Tempering 2- Reduced 3- Comfort 4- 3xSpeed 5- RoomUnit 6- TempSupply 7- MixDamper 8- BadAQ 9- Press 10- Ventilation 12- Start 13- Release 14- Error
	Opearion	382	R	0- Off / 1- On
	Speed	383	R	0-100%
	Required speed for Reduced mode in summer or medium speed in 3xSpeed	384	R/W	0-100%
	Required speed for Reduced mode in winter	400	R/W	0-100%
	Required speed for Comfort mode in summer or maximum speed in 3xSpeed	385	R/W	0-100%
	Required speed for Comfort mode in winter	420	R/W	0-100%
	Operating hours	386	R	Value
	Number of starts	387	R	Value

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Item	Data point	Registry number	Read/Write	Mapping
Supply fan	State - feedback - alarm	388	R	0- OK / 1- Error
	Press sensor	389	R	Value (Pa)
	Flow sensor	390	R	Value (Pa)
	Flow	391	R	Value (m3/h)
	Press sensor - alarm	392	R	0- OK / 1- Error
	Flow sensor - alarm	393	R	0- OK / 1- Error
	Service switch - alarm	394	R	0- OK / 1- Error
	Air flow contact - alarm	867	R	0- OK / 1- Error
	Required minimum speed in 3xSpeed	395	R/W	0-100%
	Required pressure for Reduced mode	396	R/W	Value (Pa)
	Required pressure for Comfort mode	397	R/W	Value (Pa)
	Required flow rate for Reduced mode	398	R/W	Value (m3/h)
	Required flow rate for Comfort mode	399	R/W	Value (m3/h)
Extract fan	State	401	R	0- Off 1- Tempering 2- Reduced 3- Comfort 4- 3xSpeed 5- RoomUnit 6- TempSupply 7- MixDamper 8- BadAQ 9- Press 10- Ventilation 12- Start 13- Release 14- Error
	Operation	402	R	0- Off / 1- On
	Speed	403	R	0-100%
	Required speed for Reduced mode in summer or medium speed in 3xSpeed	404	R/W	0-100%
	Required speed for Reduced mode in winter	421	R/W	0-100%
	Required speed for Comfort mode in summer or maximum speed in 3xSpeed	405	R/W	0-100%
	Required speed for Comfort mode in winter	422	R/W	0-100%
	Operating hours	406	R	Value
	Number of starts	407	R	Value
	State - feedback - alarm	408	R	0- OK / 1- Error
	Press sensor	409	R	Value (Pa)
	Flow sensor	410	R	Value (Pa)
	Flow	411	R	Value (m3/h)
	Press sensor - alarm	412	R	0- OK / 1- Error
	Flow sensor - alarm	413	R	0- OK / 1- Error
	Service switch - alarm	414	R	0- OK / 1- Error
	Air flow contact - alarm	868	R	0- OK / 1- Error
	Required minimum speed in 3xSpeed	415	R/W	0-100%
	Required pressure for Reduced mode	416	R/W	Value (Pa)
	Required pressure for Comfort mode	417	R/W	Value (Pa)
	Required flow rate for Reduced mode	418	R/W	Value (m3/h)
	Required flow rate for Comfort mode	419	R/W	Value (m3/h)

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Item	Data point	Registry number	Read/Write	Mapping
Fans	Speed compensation - alarm	423	R	0- OK / 1- Error
Fire	State	510	R	0- OK 1- Fire 2- Smoke 3- Fire&Smoke
	Fire - alarm	511	R	0- OK / 1- Fire
	Smoke detector 1 - alarm	512	R	0- OK / 1- Smoke
	Smoke detector 2 - alarm	513	R	0- OK / 1- Smoke
Fire dampers	Fire damper 1 - state - alarm - alarm	514	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Fire damper 2 - state	515	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Fire damper 3 - state - alarm - alarm	516	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Fire damper 4 - state - alarm - alarm	517	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Fire damper 5 - state - alarm - alarm	518	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Fire damper 6 - state - alarm - alarm	519	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Fire damper 7 - state - alarm - alarm	520	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error

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Item	Data point	Registry number	Read/Write	Mapping
Fire dampers	Fire damper 8 - state - alarm - alarm	521	R	0- Null 1- Mezipoloha 2- Close 3- Open 4- Error 5- Error
	Global - alarm	522	R	0- OK / 1- Error
Heat pump	Circuit 1 - state	531	R	0- Off 1- Cool 2- Heat 9- NoCool 10- NoHeat 11- Frost 12- Error
	Circuit 1 - power	532	R	0-100%
	Circuit 1 - operation	533	R	0- Off / 1- On
	Circuit 1 - operating hours	534	R	Value
	Circuit 1 - feadback - alarm	535	R	0- OK / 1- Error
	Circuit 1 - number of starts	536	R	Value
	Circuit 1 - compressor - alarm	537	R	0- OK / 1- Error
	Circuit 1 - frequency inverter - alarm	538	R	0- OK / 1- Error
	Circuit 1 - high press - alarm	539	R	0- OK / 1- Error
	Circuit 1 - low press - alarm	540	R	0- OK / 1- Error
	Circuit 1 - start power	541	R/W	0-100%
	Circuit 2 - state	542	R	0- Off 1- Cool 2- Heat 9- NoCool 10- NoHeat 11- Frost 12- Error
	Circuit 2 - power	543	R	0-100%
	Circuit 2 - operation	544	R	0- Off / 1- On
	Circuit 2 - operating hours	545	R	Value
	Circuit 2 - feadback - alarm	546	R	0- OK / 1- Error
	Circuit 2 - number of starts	547	R	Value
	Circuit 2 - compressor - alarm	548	R	0- OK / 1- Error
	Circuit 2 - frequency inverter - alarm	549	R	0- OK / 1- Error
	Circuit 2 - high press - alarm	550	R	0- OK / 1- Error
	Circuit 2 - low press - alarm	551	R	0- OK / 1- Error
	Circuit 2 - start power	552	R/W	0-100%
	Frost protection - alarm	553	R	0- OK / 1- Error
	Frost protection pressure sensor	554	R	Value (Pa)
	Frost protection pressure sensor - alarm	555	R	0- OK / 1- Error
	Setting limit pressure for frost protection	556	R/W	Value (Pa)
Maximum power	557	R/W	0-100%	
Start delay	558	R/W	Value (s)	
Shutdown delay	559	R/W	Value (s)	

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Item	Data point	Registry number	Read/Write	Mapping
Heat pump	Power compensation	560	R/W	0- Off / 1- On
	Power compensation - min speed fans	561	R/W	0-100%
	Power compensation - max speed fans	562	R/W	0-100%
	Press sensor	563	R	Value (Pa)
	Press sensor - alarm	564	R	0- OK / 1- Error
	Temperature sensor 1	565	R	Value * 10 (°C)
	Temperature sensor 1 - alarm	566	R	0- OK / 1- Error
	Temperature sensor 2	567	R	Value * 10 (°C)
	Temperature sensor 2 - alarm	568	R	0- OK / 1- Error
	Temperature sensor 3	569	R	Value * 10 (°C)
	Temperature sensor 3 - alarm	570	R	0- OK / 1- Error
	Temperature sensor 4	571	R	Value * 10 (°C)
	Temperature sensor 4 - alarm	572	R	0- OK / 1- Error
	Temperature sensor 5	573	R	Value * 10 (°C)
	Temperature sensor 5 - alarm	574	R	0- OK / 1- Error
	Temperature sensor 6	575	R	Value * 10 (°C)
Temperature sensor 6 - alarm	576	R	0- OK / 1- Error	
Humidifier	State	601	R	0- Off 3- Dehumid 12- Error
	Opearion	602	R	0- Off / 1- On
	Power	603	R	0-100%
	Start power	604	R/W	0-100%
	Shutdown delay	605	R/W	Value (s)
	Operating hours	606	R	Value
	Number of starts	607	R	Value
	State - feeadback - alarm	608	R	0- OK / 1- Error
Boiler	State	611	R	0- Off / 1- On
	Selection of conditions for switching on the boiler after switching on water heating	612	R/W	0- No 1- Winter 2- Always
	Choice of switching on the boiler from low heating water temperature	613	R/W	0- Ne / 1- Ano
	Selection of conditions for switching on the boiler from low outdoor temperature	614	R/W	0- No 1- Winter 2- Heat 3- Always
	Low outdoor temperature limit for switching on the boiler	615	R/W	Value * 10 (°C)
	Selection of conditions for switching on the boiler when the difference between the outdoor temperature and the required temperature is exceeded	616	R/W	0- No 1- Winter 2- Heat 3- Always
	The difference between the outdoor temperature and the required temperature required to switch on the boiler	617	R/W	Value * 10 (°C)
	Selection of conditions for switching on the boiler from the power of the condensing unit	618	R/W	0- No 1- Winter 2- Always

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
	The required capacity of the condensing unit to switch on the boiler room	619	R/W	0-100%
	Selection of conditions for switching on the fans since the boiler was switched on	620	R/W	0- No 1- Winter 2- Always
	Switching on of fans after switching on of boiler	621	R/W	Value (min)
	Delay of switching on the boiler	622	R/W	Value (min)
Energy watch	Specific power consumption - fan supply	630	R	Value (kW/m3/s)
	Specific power consumption - fan extract	631	R	Value (kW/m3/s)
	Specific power consumption - AHU	632	R	Value (kW/m3/s)
	Class SFP - fan supply	633	R	1- SFP1 7- SFP7
	Class SFP - fan extract	634	R	1- SFP1 7- SFP7
	Class SFP - AHU	634	R	1- SFP1 7- SFP7
	Electrical energy - currently	636	R	Value (kW)
	Electricity consumption - current hour	637	R	Value (kWh)
	Electricity consumption - current day	638	R	Value (kWh)
	Electricity consumption - current week	639	R	Value (kWh)
	Electricity consumption - current month	640	R	Value (MWh)
	Electricity consumption - current year	641	R	Value (MWh)
	Other supplied energy - currently	642	R	Value (kW)
	Consumption of other supplied energy - current hour	643	R	Value (kWh)
	Consumption of other supplied energy - current day	644	R	Value (kWh)
	Consumption of other supplied energy - current week	645	R	Value (kWh)
	Consumption of other supplied energy - current month	646	R	Value (MWh)
	Consumption of other supplied energy - current year	647	R	Value (MWh)
	Recovered energy - currently	648	R	Value (kW)
	Recovered energy - current hour	649	R	Value (kWh)
	Recovered energy - current day	650	R	Value (kWh)
	Recovered energy - current week	651	R	Value (kWh)
	Recovered energy - current month	652	R	Value (MWh)
	Recovered energy - current year	653	R	Value (MWh)
Internal Modbus	Fan supply - communication - alarm	700	R	0- OK / 1- Error
	Fan supply - speed	701	R/W	0-100%
	Fan supply - input power	702	R	Value (kW)
	Fan supply - current	703	R	Value (A)
	Fan supply - voltage	704	R	Value (V)
	Fan supply - sequential master logic (only FM)	705	R	0- Init 1- Stop 2- Startup 3- Run 4- Shutdown 5- Acknowledge
	Fan supply - status	706	R	Value
	Fan supply - status 2 (only EC motor)	707	R	Value
	Fan extract - communication - alarm	708	R	0- OK / 1- Error
	Fan extract - speed	709	R/W	0-100%
	Fan extract - input power	710	R	Value (kW)
	Fan extract - current	711	R	Value (A)
	Fan extract - voltage	712	R	Value (V)

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
	Fan extract - sequential master logic (only FM)	713	R	0- Init 1- Stop 2- Startup 3- Run 4- Shutdown 5- Acknowledge
	Fan extract - status	714	R	Value
	Fan extract - status 2 (only EC motor)	715	R	Value
	Heat pump Circuit 1 - suction temperature	716	R	Value * 10 (°C)
	Heat pump Circuit 1 - evaporate temperature	717	R	Value * 10 (°C)
	Heat pump Circuit 1 - evaporate press	718	R	Value (bar)
	Heat pump Circuit 1 - expansion valve open	719	R	0-100%
	Heat pump Circuit 1 - superheat	720	R	Value * 10 (°C)
	Heat pump Circuit 1 - state expansion valve driver	721	R	Value
	Heat pump Circuit 2 - suction temperature	722	R	Value * 10 (°C)
	Heat pump Circuit 2 - evaporate temperature	723	R	Value * 10 (°C)
	Heat pump Circuit 2 - evaporate press	724	R	Value (bar)
	Heat pump Circuit 2 - expansion valve open	725	R	0-100%
	Heat pump Circuit 2 - superheat	726	R	Value * 10 (°C)
	Heat pump Circuit 2 - state expansion valve driver	727	R	Value
	Heat pump EV driver - communication - alarm	728	R	0- OK / 1- Error
	Electricity meter- communication - alarm	729	R	0- OK / 1- Error
	Room unit AMR OP - communication - alarm	730	R	0- OK / 1- Error
Mode scheduler	Monday - time 1	736	R/W	Value
	Monday - mode 1	737	R/W	Value
	Monday - time 2	738	R/W	Value
	Monday - mode 2	739	R/W	Value
	Monday - time 3	740	R/W	Value
	Monday - mode 3	741	R/W	Value
	Monday - time 4	742	R/W	Value
	Monday - mode 4	743	R/W	Value
	Monday - time 5	744	R/W	Value
	Monday - mode 5	745	R/W	Value
	Monday - time 6	746	R/W	Value
	Monday - mode 6	747	R/W	Value
	Tuesday - time 1	748	R/W	Value
	Tuesday - mode 1	749	R/W	Value
	Tuesday - time 2	750	R/W	Value
	Tuesday - mode 2	751	R/W	Value
	Tuesday - time 3	752	R/W	Value
	Tuesday - mode 3	753	R/W	Value
	Tuesday - time 4	754	R/W	Value
	Tuesday - mode 4	755	R/W	Value
Tuesday - time 5	756	R/W	Value	
Tuesday - mode 5	757	R/W	Value	
Tuesday - time 6	758	R/W	Value	

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Mode scheduler	Tuesday - mode 6	759	R/W	Value
	Wednesday - time 1	760	R/W	Value
	Wednesday - mode 1	761	R/W	Value
	Wednesday - time 2	762	R/W	Value
	Wednesday - mode 2	763	R/W	Value
	Wednesday - time 3	764	R/W	Value
	Wednesday - mode 3	765	R/W	Value
	Wednesday - time 4	766	R/W	Value
	Wednesday - mode 4	767	R/W	Value
	Wednesday - time 5	768	R/W	Value
	Wednesday - mode 5	769	R/W	Value
	Wednesday - time 6	770	R/W	Value
	Wednesday - mode 6	771	R/W	Value
	Thursday - time 1	772	R/W	Value
	Thursday - mode 1	773	R/W	Value
	Thursday - time 2	774	R/W	Value
	Thursday - mode 2	775	R/W	Value
	Thursday - time 3	776	R/W	Value
	Thursday - mode 3	777	R/W	Value
	Thursday - time 4	778	R/W	Value
	Thursday - mode 4	779	R/W	Value
	Thursday - time 5	780	R/W	Value
	Thursday - mode 5	781	R/W	Value
	Thursday - time 6	782	R/W	Value
	Thursday - mode 6	783	R/W	Value
	Friday - time 1	784	R/W	Value
	Friday - mode 1	785	R/W	Value
	Friday - time 2	786	R/W	Value
	Friday - mode 2	787	R/W	Value
	Friday - time 3	788	R/W	Value
	Friday - mode 3	789	R/W	Value
	Friday - time 4	790	R/W	Value
	Friday - mode 4	791	R/W	Value
	Friday - time 5	792	R/W	Value
	Friday - mode 5	793	R/W	Value
	Friday - time 6	794	R/W	Value
	Friday - mode 6	795	R/W	Value
	Saturday - time 1	796	R/W	Value
	Saturday - mode 1	797	R/W	Value
	Saturday - time 2	798	R/W	Value
	Saturday - mode 2	799	R/W	Value
	Saturday - time 3	800	R/W	Value
Saturday - mode 3	801	R/W	Value	
Saturday - time 4	802	R/W	Value	
Saturday - mode 4	803	R/W	Value	
Saturday - time 5	804	R/W	Value	
Saturday - mode 5	805	R/W	Value	
Saturday - time 6	806	R/W	Value	
Saturday - mode 6	807	R/W	Value	

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Mode scheduler	Sunday - time 1	808	R/W	Value
	Sunday - mode 1	809	R/W	Value
	Sunday - time 2	810	R/W	Value
	Sunday - mode 2	811	R/W	Value
	Sunday - time 3	812	R/W	Value
	Sunday - mode 3	813	R/W	Value
	Sunday - time 4	814	R/W	Value
	Sunday - mode 4	815	R/W	Value
	Sunday - time 5	816	R/W	Value
	Sunday - mode 5	817	R/W	Value
	Sunday - time 6	818	R/W	Value
	Sunday - mode 6	819	R/W	Value
	Exception - time 1	820	R/W	Value
	Exception - mode 1	821	R/W	Value
	Exception - time 2	822	R/W	Value
	Exception - mode 2	823	R/W	Value
	Exception - time 3	824	R/W	Value
	Exception - mode 3	825	R/W	Value
	Exception - time 4	826	R/W	Value
	Exception - mode 4	827	R/W	Value
	Exception - time 5	828	R/W	Value
	Exception - mode 5	829	R/W	Value
	Exception - time 6	830	R/W	Value
Exception - mode 6	831	R/W	Value	
Default value out of scheduler	832	R/W	Value	
Temperature Season	Current season	833	R	0- Summer / 1- Winter
	Temperature	834	R/W	Value * 10 (°C)
	Delay	835	R/W	Value (min)
Service	Regular service alert	851	R	0- Ne / 1- Ano
	Regular service setting	852	R/W	0- Ne 1-Year 2-Year/2 3-Year/4 4- Month
Date	Year	853	R/W	Value
	Month	854	R/W	Value
	Day	855	R/W	Value
	Hodina	856	R/W	Value
	Minute	857	R/W	Value
	Second	858	R/W	Value
	Všední den	859	R/W	Value
Free cooling	State	896	R	0- Off 1- TOutMin 2- TOutMax 3- TSupMin 4- ErrSensor 5- MinOn 6- NormOn 7- HardOn

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Free cooling	Turned on	897	R	0- Off / 1- On
	Operating hours	898	R	Value
	Number of turn-on's	899	R	Value
	Set room temperature	900	R/W	Value * 10 (°C)
	Outside temperature hysteresis	901	R/W	Value * 10 (°C)
	Minimal outside temperature	902	R/W	Value * 10 (°C)
	Minimal turned-on time	903	R/W	Value (sec)
Free cooling scheduler	Monday - time 1	904	R/W	Value
	Monday - value 1	905	R/W	0- Off / 1- On
	Monday - time 2	906	R/W	Value
	Monday - value 2	907	R/W	0- Off / 1- On
	Monday - time 3	908	R/W	Value
	Monday - value 3	909	R/W	0- Off / 1- On
	Monday - time 4	910	R/W	Value
	Monday - value 4	911	R/W	0- Off / 1- On
	Monday - time 5	912	R/W	Value
	Monday - value 5	913	R/W	0- Off / 1- On
	Monday - time 6	914	R/W	Value
	Monday - value 6	915	R/W	0- Off / 1- On
	Tuesday - time 1	916	R/W	Value
	Tuesday - value 1	917	R/W	0- Off / 1- On
	Tuesday - time 2	918	R/W	Value
	Tuesday - value 2	919	R/W	0- Off / 1- On
	Tuesday - time 3	920	R/W	Value
	Tuesday - value 3	921	R/W	0- Off / 1- On
	Tuesday - time 4	922	R/W	Value
	Tuesday - value 4	923	R/W	0- Off / 1- On
	Tuesday - time 5	924	R/W	Value
	Tuesday - value 5	925	R/W	0- Off / 1- On
	Tuesday - time 6	926	R/W	Value
	Tuesday - value 6	927	R/W	0- Off / 1- On
	Wednesday - time 1	928	R/W	Value
	Wednesday - value 1	929	R/W	0- Off / 1- On
	Wednesday - time 2	930	R/W	Value
	Wednesday - value 2	931	R/W	0- Off / 1- On
	Wednesday - time 3	932	R/W	Value
	Wednesday - value 3	933	R/W	0- Off / 1- On
	Wednesday - time 4	934	R/W	Value
	Wednesday - value 4	935	R/W	0- Off / 1- On
	Wednesday - time 5	936	R/W	Value
	Wednesday - value 5	937	R/W	0- Off / 1- On
	Wednesday - time 6	938	R/W	Value
	Wednesday - value 6	939	R/W	0- Off / 1- On
	Thursday - time 1	940	R/W	Value
	Thursday - value 1	941	R/W	0- Off / 1- On
	Thursday - time 2	942	R/W	Value
	Thursday - value 2	943	R/W	0- Off / 1- On
	Thursday - time 3	944	R/W	Value
	Thursday - value 3	945	R/W	0- Off / 1- On

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Free cooling scheduler	Thursday - time 4	946	R/W	Value
	Thursday - value 4	947	R/W	0- Off / 1- On
	Thursday - time 5	948	R/W	Value
	Thursday - value 5	949	R/W	0- Off / 1- On
	Thursday - time 6	950	R/W	Value
	Thursday - value 6	951	R/W	0- Off / 1- On
	Friday - time 1	952	R/W	Value
	Friday - value 1	953	R/W	0- Off / 1- On
	Friday - time 2	954	R/W	Value
	Friday - value 2	955	R/W	0- Off / 1- On
	Friday - time 3	956	R/W	Value
	Friday - value 3	957	R/W	0- Off / 1- On
	Friday - time 4	958	R/W	Value
	Friday - value 4	959	R/W	0- Off / 1- On
	Friday - time 5	960	R/W	Value
	Friday - value 5	961	R/W	0- Off / 1- On
	Friday - time 6	962	R/W	Value
	Friday - value 6	963	R/W	0- Off / 1- On
	Saturday - time 1	964	R/W	Value
	Saturday - value 1	965	R/W	0- Off / 1- On
	Saturday - time 2	966	R/W	Value
	Saturday - value 2	967	R/W	0- Off / 1- On
	Saturday - time 3	968	R/W	Value
	Saturday - value 3	969	R/W	0- Off / 1- On
	Saturday - time 4	970	R/W	Value
	Saturday - value 4	971	R/W	0- Off / 1- On
	Saturday - time 5	972	R/W	Value
	Saturday - value 5	973	R/W	0- Off / 1- On
	Saturday - time 6	974	R/W	Value
	Saturday - value 6	975	R/W	0- Off / 1- On
	Sunday - time 1	976	R/W	Value
	Sunday - value 1	977	R/W	0- Off / 1- On
	Sunday - time 2	978	R/W	Value
	Sunday - value 2	979	R/W	0- Off / 1- On
	Sunday - time 3	980	R/W	Value
	Sunday - value 3	981	R/W	0- Off / 1- On
	Sunday - time 4	982	R/W	Value
	Sunday - value 4	983	R/W	0- Off / 1- On
	Sunday - time 5	984	R/W	Value
	Sunday - value 5	985	R/W	0- Off / 1- On
	Sunday - time 6	986	R/W	Value
	Sunday - value 6	987	R/W	0- Off / 1- On
	Exception - time 1	988	R/W	Value
	Exception - mode 1	989	R/W	0- Off / 1- On
Exception - time 2	990	R/W	Value	
Exception - mode 2	991	R/W	0- Off / 1- On	
Exception - time 3	992	R/W	Value	
Exception - mode 3	993	R/W	0- Off / 1- On	
Exception - time 4	994	R/W	Value	

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
	Exception - mode 4	995	R/W	0- Off / 1- On
	Exception - time 5	996	R/W	Value
	Exception - mode 5	997	R/W	0- Off / 1- On
	Exception - time 6	998	R/W	Value
	Exception - mode 6	999	R/W	0- Off / 1- On

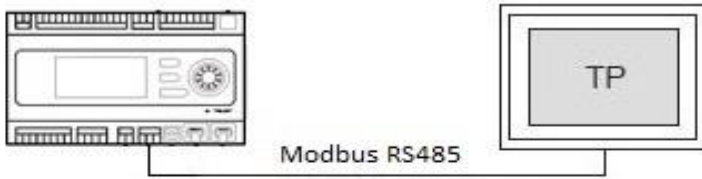
Note:

The registry address is 1 smaller than its registry number.

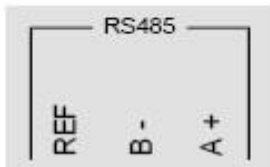
All registers are Holding Integer.

Modbus connection variants:

1. Modbus RTU - local port



Cable connection

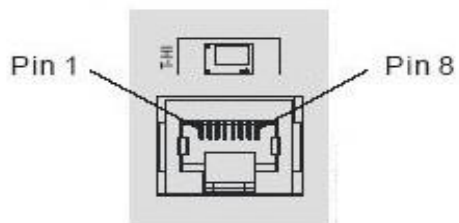


2. Modbus RTU - service port



Cable connection

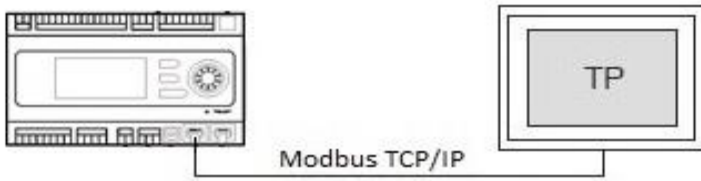
RJ45 jack, 8 pins (top view):



Pin-out for RJ45-
connector

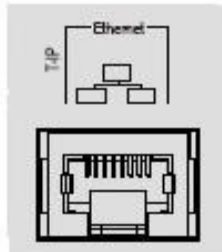
Pin	Signal
1	USB device, D+
2	USB device, D-
3	RS485, A+
4	Ground
5	Select 2
6	RS485, B-
7	Select 1
8	DC 24 V (Output)

3. Modbus TCP/IP - ethernet port

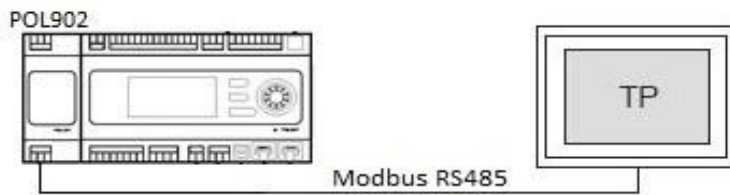


Cable connection

RJ45 jack, 8 pins (top view):



4. Modbus RS485 - communication modul POL902



Cable connection

