

Measurement and control system KJM MANDÍK
Climatix

Modbus table

for version software 27.01

4/2020

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- TemperingFreecooling 5-
	Auxiliary	3	R	0- Null 4- FanSpeedCompens 5- Ventilation 7- Preheating 10- Boiler 11- Start 12- BlockFan 13- SuperiorBlock 14- Testing
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 - current state	12	R	0- OK / 1- Error
	Supply air	13	R	Value * 10 (°C)
	Supply air - current state	14	R	0- OK / 1- Error
	Preheat air	15	R	Value * 10 (°C)
	Prehaet air - current state	16	R	0- OK / 1- Error
	Flue gas	17	R	Value * 10 (°C)
	Flue gas - current state	18	R	0- OK / 1- Error
	Extract air	19	R	Value * 10 (°C)
	Extract air - current state	20	R	0- OK / 1- Error
	Exhaust air	21	R	Value * 10 (°C)
	Exhaust air - current state	22	R	0- OK / 1- Error
	Outdoor	23	R	Value * 10 (°C)
	Outdoor - current state	24	R	0- OK / 1- Error
	Heating water supplied to the exchanger	25	R	Value * 10 (°C)
	Heating water supplied to the exchanger - current state	26	R	0- OK / 1- Error

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Item	Data point	Registry number	Read/Write	Mapping
Measured temperatures	Heating water returning from the exchanger	27	R	Value * 10 (°C)
	Heating water returning from the exchanger - current state	28	R	0- OK / 1- Error
	Cooling water supplied to the exchanger	29	R	Value * 10 (°C)
	Cooling water supplied to the exchanger - current state	30	R	0- OK / 1- Error
	Cooling water returning from the exchanger	31	R	Value * 10 (°C)
	Cooling water returning from the exchanger - current state	32	R	0- OK / 1- Error
	Room	35	R	Value * 10 (°C)
	Room - current state	36	R	0- OK / 1- Error
	Room 2	37	R	Value * 10 (°C)
	Room 2 - current state	38	R	0- OK / 1- Error
	In front of recuperator on supply air	47	R	Value * 10 (°C)
	In front of recuperator on supply air - current state	48	R	0- OK / 1- Error
	Behind recuperator on supply air	49	R	Value * 10 (°C)
	Behind recuperator on supply air - current state	50	R	0- OK / 1- Error
	Room unit	860	R	Value * 10 (°C)
	Room unit - current state	861	R	0- OK / 1- Error
	Internal controller	862	R	Value * 10 (°C)
1. supply air filter	Current 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)
	Current state	56	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - current state	57	R	0- OK / 1- Error
	Operating hours with a dirty filter	58	R	Value (hours)
2. supply air filter	Current 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)
	Current state	63	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - current state	64	R	0- OK / 1- Error
	Operating hours with a dirty filter	65	R	Value (hours)

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Item	Data point	Registry number	Read/Write	Mapping
1. exhaust air filter	Current 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)
	Current state	73	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - current state	74	R	0- OK / 1- Error
	Operating hours with a dirty filter	75	R	Value (hours)
2. exhaust air filter	Current 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)
	Current state	81	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - current state	82	R	0- OK / 1- Error
	Operating hours with a dirty filter	83	R	Value (hours)
Grease filter	Current 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)
	Current state	90	R	0- Null 1- OK 2- Dirty (Info) 3- Clogged (Hard) 4- ErrorSensor
	Pressure sensor - current state	91	R	0- OK / 1- Error
	Operating hours with a dirty filter	92	R	Value (hours)
Air quality	Current state	109	R	0-OK / 1-Bad
	Aktuální hodnota	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
	Setpoint start airing - high limit	113	R/W	Value (ppm)
	Setpoint stop airing - low limit	114	R/W	Value (ppm)

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Item	Data point	Registry number	Read/Write	Mapping
Air quality	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 - current state	122	R	0- OK / 1- Error
	Sensor 2	123	R	Value (ppm)
	Sensor 2 - current state	124	R	0- OK / 1- Error
Humidity	Current state	142	R	0- Off 1- OK 2- Low 3- High 4- Outdoor
	Current value	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 (%)
	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 (%)

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Item	Data point	Registry number	Read/Write	Mapping
Humidity	Outdoor sensor	155	R	Value (%)
	Absolute value of the outside air	156	R	Value (g/kg)
	Outdoor sensor - current state	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 ensor - current state	160	R	0- OK / 1- Error
	Room sensor	161	R	Value (%)
	Absolute value in the room	162	R	Value (g/kg)
	Room sensor - current state	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 - current state	166	R	0- OK / 1- Error
Glycol	Current state	181	R	0 - Off 1 - Cool 2 - Heat 6 - MediumTemperature 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	Current valve opening - current output	182	R	0-100%
	Current pump status	183	R	0-Off / 1-On
	Pump Operating hours	184	R	Value
	Number of pump starts	185	R	Value
	Thermal protection pump - current state	186	R	0- OK / 1- Error
	Current status exchanger frost protection	187	R	0-Off / 1-On
	Frost protection pressure sensor	188	R	Value (Pa)
	Frost protection pressure sensor - current state	189	R	0- OK / 1- Error
	Setting limit pressure for frost protection	190	R/W	Value (Pa)
	Current make-up pump status	191	R	0-Off / 1-On
	Number of starts of the 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 - current state	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 (%)
	Current position of supply air damper	202	R	Value (%)
	Current position of the mixing flap	207	R	Value (%)
	Current position of the exhaust air damper	212	R	Value (%)
	Current state	213	R	0 - Off 1 - Mode 2 - Humidity 3 - AirQuality 4 - FrostMin 5 - waterMin 6 - Error
	Selection of sensor for regulation of fresh air volume based	215	R/W	0 - Outdoor 1 - Preheat

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Dampers	Selection of sensor for regulation of fresh air volume based			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	Current pump status	231	R	0-Off / 1-On
	Heating water temperature low - current state	232	R	0- OK / 1- Error
	Current valve opening - current output	233	R	0-100%
	Heat exchanger frost protection - current state	234	R	0- OK / 1- Error
	Low supply air temperature - current state	235	R	0- OK / 1- Error
	Current state	236	R	0 - Off 2 - Heat 3 - Humidity 4 - LowTempOutdoor 5 - LowTempSupply 6 - LowTempWater 8 - Preheating 10 - TempWtrBad 11 - FrostThermostat 12 - Error
	Thermal protection pump - current state	237	R	0- OK / 1- Error
	Pump Operating hours	246	R	Value

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Item	Data point	Registry number	Read/Write	Mapping
Water heater	Number of pump starts	247	R	Value
Water cooler	Current pump status	242	R	0-Off / 1-On
	Current valve opening - current output	243	R	0-100%
	Current state	244	R	0 - Off 1 - Cool 3 - Deumid 9 - NoCool 12 - Error
	Thermal protection pump - current state	245	R	0- OK / 1- Error
	Pump Operating hours	246	R	Value
	Number of pump starts	247	R	Value
Recuperator	Current state	251	R	0 - Off 1 - Cool 2 - Heat 3 - Deumid 8 - Preheat 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	Current power	252	R	0-100%
	Current working	253	R	0-Off / 1-On
	Operating hours	254	R	Value
	Number of starts	255	R	Value
	Current status frost protection	256	R	0-Off / 1-On
	Frost protection pressure sensor	257	R	Value (Pa)
	Frost protection pressure sensor - current state	258	R	0- OK / 1- Error
	Setting limit pressure for frost protection	259	R/W	Value (Pa)
	Current state - current state	260	R	0- OK / 1- Error
1. condensing unit	Current state	271	R	0 - Off 1 - Cool 2 - Heat 3 - Humidity 4 - LowTempOutdoor 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	Current power	272	R	0-100%
	Current working	273	R	0-Off / 1-On
	Operating hours	274	R	Value
	Current state - current state	275	R	0- OK / 1- Error
	Number of defrosts	276	R	Value
	Number of starts	277	R	Value
2. condensing unit	Current state	279	R	0 - Off 1 - Cool 2 - Heat 3 - Humidity 4 - LowTempOutdoor 9 - NoCool

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Item	Data point	Registry number	Read/Write	Mapping
2. condensing unit	Current state			10 - NoHeat 11 - Frost 12 - Error
	Current power	280	R	0-100%
	Current working	281	R	0-Off / 1-On
	Operating hours	282	R	Value
	Current state - current state	283	R	0- OK / 1- Error
	Number of defrosts	284	R	Value
	Number of starts	285	R	Value
3. condensing unit	Current state	287	R	0 - Off 1 - Cool 2 - Heat 3 - Humidity 4 - LowTempOutdoor 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	Current power	288	R	0-100%
	Current working	289	R	0-Off / 1-On
	Operating hours	290	R	Value
	Current state - current state	291	R	0- OK / 1- Error
	Number of defrosts	292	R	Value
	Number of starts	293	R	Value
4. condensing unit	Current state	295	R	0 - Off 1 - Cool 2 - Heat 3 - Humidity 4 - LowTempOutdoor 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	Current power	296	R	0-100%
	Current working	297	R	0-Off / 1-On
	Operating hours	298	R	Value
	Current state - current state	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)
Electrical heater	Current working	331	R	0-Off / 1-On
	Current power	332	R	0-100%
	Maximum power	333	R/W	0-100%
	Current state	334	R	0 - Off 2 - Heat

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Item	Data point	Registry number	Read/Write	Mapping
Electrical heater	Current state			5 - HighTempSupply 12 - Error
	Number of starts	335	R	Value
	Operating hours	336	R	Value
	Current state	337	R	0- OK / 1- Error
Gas heater	Burner - current state	350	R	0 - Off 2 - Heat 5 - HighTempSupply 7 - HighTempFlue 10 - NoHeat 12 - Error
	Burner - current working	351	R	0-Off / 1-On
	Burner - current power	352	R	0-100%
	Burner - maximum power	353	R/W	0-100%
	Burner - switch-off delay	355	R/W	Value (s)
	Burner - current state	356	R	0- OK / 1- Error
	Maximum safe flue gas temperature	358	R	0-Off / 1-On
	Burner - Operating hours	359	R	Value
	Burner - number of turn-on's	360	R	Value
	Exchanger damper - current position	361	R	0-100%
	Exchanger convector- current working	366	R	0-Off / 1-On
	Exchanger convector - number of starts	367	R	Value
Supply fan	Current 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
	Current working	382	R	0-Off / 1-On
	Current 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
	Current state	388	R	0- OK / 1- Error
	Press sensor	389	R	Value (Pa)
	Flow sensor	390	R	Value (Pa)
Currently flow	391	R	Value (m3/h)	

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Item	Data point	Registry number	Read/Write	Mapping
Supply fan	Press sensor - current state	392	R	0- OK / 1- Error
	Flow sensor - current state	393	R	0- OK / 1- Error
	Service switch - current state	394	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	Current 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
	Current working	402	R	0-Off / 1-On
	Current 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
	Current state - current state	408	R	0- OK / 1- Error
	Press sensor	409	R	Value (Pa)
	Flow sensor	410	R	Value (Pa)
	Currently flow	411	R	Value (m3/h)
	Press sensor - current state	412	R	0- OK / 1- Error
	Flow sensor - current state	413	R	0- OK / 1- Error
	Service switch - current state	414	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)	
Fire	Current state	510	R	0 - OK 1 - Fire 2 - Smoke 3 - Fire&Smoke
	Fire - current state	511	R	0-OK / 1-Fire
	Smoke detector 1 - current state	512	R	0-OK / 1-Smoke

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Item	Data point	Registry number	Read/Write	Mapping
Fire	Smoke detector 2 - current state	513	R	0-OK / 1-Smoke
Fire dampers	Fire damper 1 - current state	514	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
Fire dampers	Fire damper 2 - current state	515	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire damper 3 - current state	516	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire damper 4 - current state	517	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire damper 5 - current state	518	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire damper 6 - current state	519	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire damper 7 - current state	520	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire damper 8 - current state	521	R	0 - Null 1 - Mezipoloha 2 - Close 3 - Open 4 - Error 5 - Error
	Fire dampers - current global state	522	R	0- OK / 1- Error

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Heat pump	1. Circuit - current state	531	R	0 - Off 1 - Cool 2 - Heat 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	1. Circuit - current power	532	R	0-100%
	1. Circuit - current working	533	R	0-Off / 1-On
	1. Circuit - Operating hours	534	R	Value
	1. Circuit - current state	535	R	0- OK / 1- Error
	1. Circuit - number of starts	536	R	Value
	1. Circuit - compressor	537	R	0- OK / 1- Error
	1. Circuit - frequency inverter	538	R	0- OK / 1- Error
	1. Circuit - high press	539	R	0- OK / 1- Error
	1. Circuit - low press	540	R	0- OK / 1- Error
	1. Circuit - start power	541	R/W	0-100%
	2. Circuit - current state	542	R	0 - Off 1 - Cool 2 - Heat 9 - NoCool 10 - NoHeat 11 - Frost 12 - Error
	2. Circuit - current power	543	R	0-100%
	2. Circuit - current working	544	R	0-Off / 1-On
	2. Circuit - Operating hours	545	R	Value
	2. Circuit - current state	546	R	0- OK / 1- Error
	2. Circuit - number of starts	547	R	Value
	2. Circuit - compressor	548	R	0- OK / 1- Error
	2. Circuit - frequency inverter - current state	549	R	0- OK / 1- Error
	2. Circuit - high press	550	R	0- OK / 1- Error
	2. Circuit - low press	551	R	0- OK / 1- Error
	2. Circuit - start power	552	R/W	0-100%
	Current status exchanger frost protection	553	R	0-Off / 1-On
	Frost protection pressure sensor	554	R	Value (Pa)
	Frost protection pressure sensor - current state	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)
	Power compensation	560	R/W	0- Ne / 1- Ano
	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 - current state	564	R	0- OK / 1- Error	
Temperature sensor 1	565	R	Value * 10 (°C)	
Temperature sensor 1 - current state	566	R	0- OK / 1- Error	

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Item	Data point	Registry number	Read/Write	Mapping
Heat pump	Temperature sensor 2	567	R	Value * 10 (°C)
	Temperature sensor 2 - current state	568	R	0- OK / 1- Error
	Temperature sensor 3	569	R	Value * 10 (°C)
	Temperature sensor 3 - current state	570	R	0- OK / 1- Error
	Temperature sensor 4	571	R	Value * 10 (°C)
	Temperature sensor 4 - current state	572	R	0- OK / 1- Error
	Temperature sensor 5	573	R	Value * 10 (°C)
	Temperature sensor 5 - current state	574	R	0- OK / 1- Error
	Temperature sensor 6	575	R	Value * 10 (°C)
	Temperature sensor 6 - current state	576	R	0- OK / 1- Error
Humidifier	Current state	601	R	0 - Off 3 - Dehumid 12 - Error
	Current working	602	R	0-Off / 1-On
	Current 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
	Current state	608	R	0- OK / 1- Error
Boiler	Current 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
	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)

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Control components	Fan supply - communication	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	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)
	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 1. circuit - suction temperature	716	R	Value * 10 (°C)
	Heat pump 1. circuit - evaporate temperature	717	R	Value * 10 (°C)
	Heat pump 1. circuit - evaporate press	718	R	Value (bar)
	Heat pump 1. circuit - expansion valve open	719	R	0-100%
	Heat pump 1. circuit - superheat	720	R	Value * 10 (°C)
	Heat pump 1. circuit - state expansion valve driver	721	R	Value
	Heat pump 2. circuit - suction temperature	722	R	Value * 10 (°C)
	Heat pump 2. circuit - evaporate temperature	723	R	Value * 10 (°C)
	Heat pump 2. circuit - evaporate press	724	R	Value (bar)
	Heat pump 2. circuit - expansion valve open	725	R	0-100%
	Heat pump 2. circuit - superheat	726	R	Value * 10 (°C)
	Heat pump 2. circuit - state expansion valve driver	727	R	Value
Heat pump EV driver - communication	728	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

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Mode scheduler	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
	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	

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Mode scheduler	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
	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	808	R/W	Value
	Exception - mode 1	809	R/W	Value
	Exception - time 2	810	R/W	Value
	Exception - mode 2	811	R/W	Value
	Exception - time 3	812	R/W	Value
Exception - mode 3	813	R/W	Value	
Exception - time 4	814	R/W	Value	
Exception - mode 4	815	R/W	Value	
Exception - time 5	816	R/W	Value	
Exception - mode 5	817	R/W	Value	
Exception - time 6	818	R/W	Value	
Exception - mode 6	819	R/W	Value	
Default value out of scheduler	832	R/W	Value	
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

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Date	Year	853	R/W	Value
	Month	854	R/W	Value
	Day	855	R/W	Value
	Hour	856	R/W	Value
	Minute	857	R/W	Value
	Second	858	R/W	Value
	WeekDay	859	R/W	Value
Free cooling	Current state	896	R	0 - Off 1 - TOutMin 2 - TOutMax 3 - TSupMin 4 - ErrSensor 5 - MinOn 6 - NormOn 7 - HardOn
	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)
	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	

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Free cooling	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
	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

ModBus table for KJM Mandík with Climatix controller

Item	Data point	Registry number	Read/Write	Mapping
Free cooling	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
	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	

Notes:

- The registry address is 1 smaller than its registry number.
- All registers are Holding Integer.

Modbus connection variants:

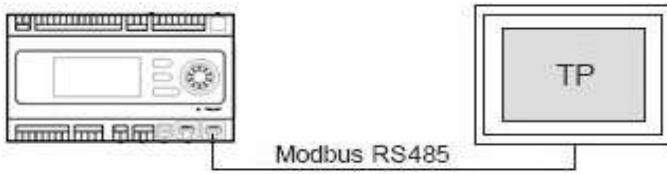
1. Modbus RTU - local port



Cable connection

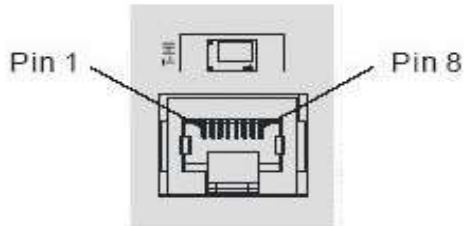


2. Modbus RTU - service port



Cable connection

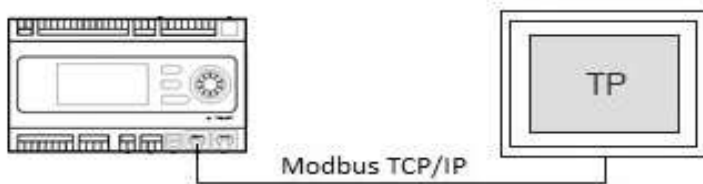
RJ45 jack, 8 pins (top view):



Pin-out for RJ45-connector

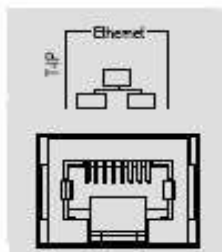
Pin	Signal
1	USB device, D+
2	USB device, D-
3	RS485, A+
4	Ground
5	Select 2
6	RS485, B-
7	Select 1
8	DC 24 V (Output)

3. Modbus TCP/IP - ethernet port

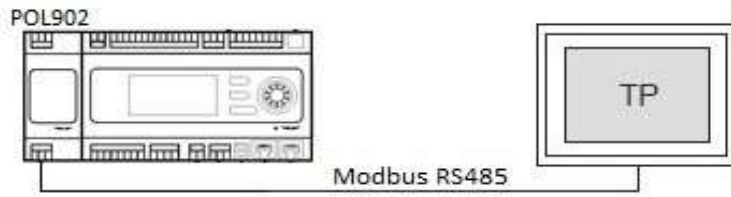


Cable connection

RJ45 jack, 8 pins (top view):



4. Modbus RS485 - communication modul POL902



Cable connection

