

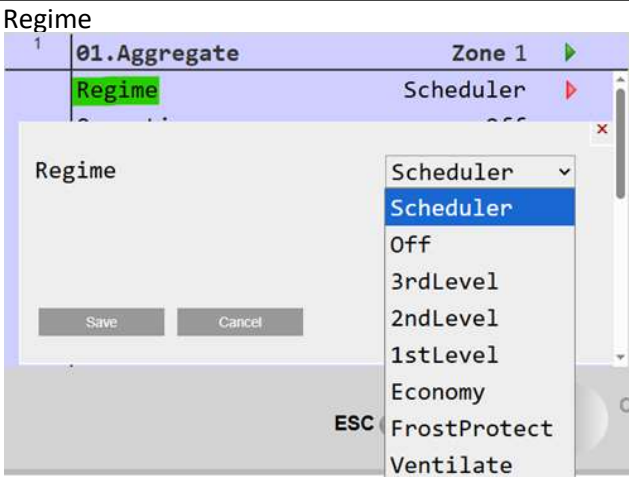
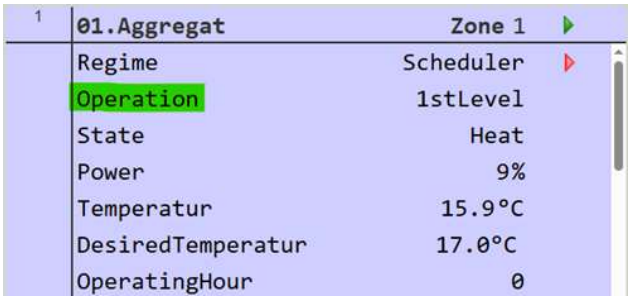
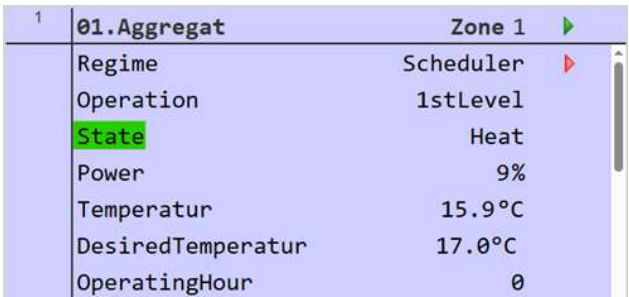
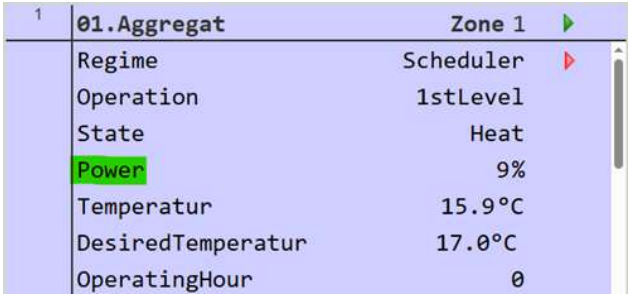
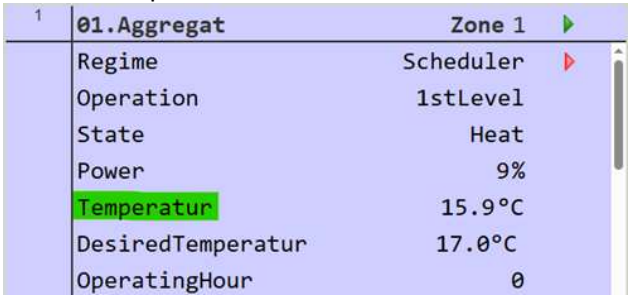
Industrial heating and cooling measurement and control system MANDÍK
Climatix

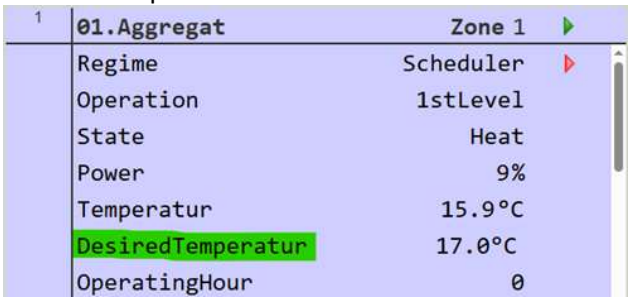
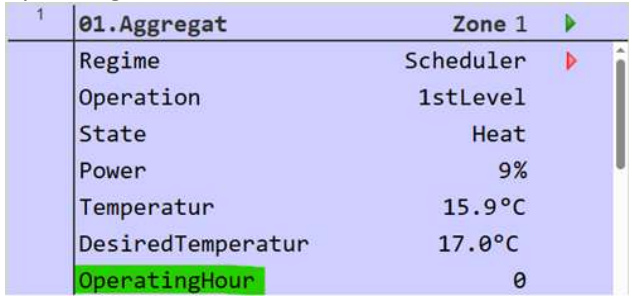
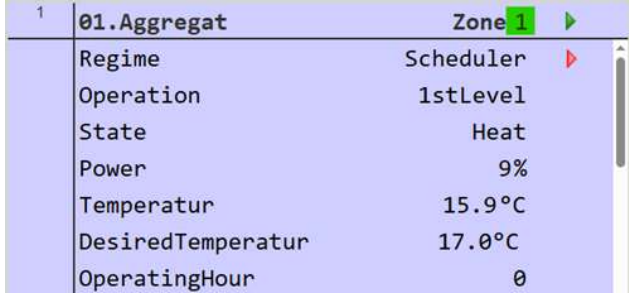
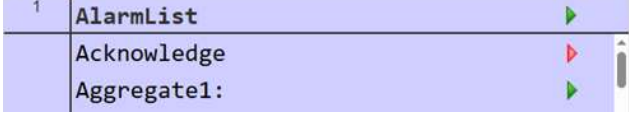

Modbus table

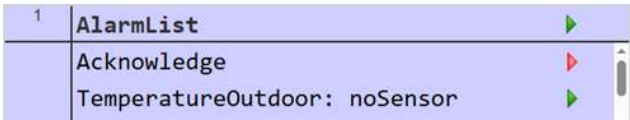


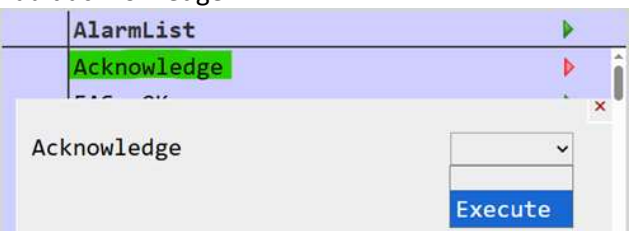

for software version IHC42.01 and higher

03/2025

MANDÍK®

Item	Data point	Registry number	Read/Write	Mapping
1.Aggregate		1	R/W	0 - Auto (Scheduler) 1 - Off 2 - 3rdLevel 3 - 2ndLevel 4 - 1stLevel 5 - Econom 6 - Frost 7- Ventilate
		2	R	1 - Off 2 - 3rdLevel 3 - 2ndLevel 4 - 1stLevel 5 - Econom 6 - Frost 7 - Ventilate
		3	R	1 - Off 2 - Ventilate 3 - Start 4 - Heat 5 - Cool 6 - ExtReg 7 - Door 8 - Window 9 - Defrost 10 - Fault 11 - FDAS
		4	R	Value [%]
		5	R	Value * 10 [°C]

Item	Data point	Registry number	Read/Write	Mapping
1. Aggregate	Desired temperature 	6	R	Value * 10 [°C]
	Operating hour 	7	R	Value
	Operating zone number 	8	R	Value
	Fault aggregate 	9	R	0 - OK / 1- Fault
	Fault current temperature sensor 	10	R	0 - OK / 1- Fault
Aggregate 2	Same data points as in aggregate 1 with address range 11 to 20.			
Aggregate 3	Same data points as in aggregate 1 with address range 21 to 30.			
Aggregate 4	Same data points as in aggregate 1 with address range 31 to 40.			
Aggregate 5	Same data points as in aggregate 1 with address range 41 to 50.			
Aggregate 6	Same data points as in aggregate 1 with address range 51 to 60.			
Aggregate 7	Same data points as in aggregate 1 with address range 61 to 70.			
Aggregate 8	Same data points as in aggregate 1 with address range 71 to 80.			
Aggregate 9	Same data points as in aggregate 1 with address range 81 to 90.			
Aggregate 10	Same data points as in aggregate 1 with address range 91 to 100.			
Aggregate 11	Same data points as in aggregate 1 with address range 101 to 110.			
Aggregate 12	Same data points as in aggregate 1 with address range 111 to 120.			
Aggregate 13	Same data points as in aggregate 1 with address range 121 to 130.			
Aggregate 14	Same data points as in aggregate 1 with address range 131 to 140.			
Aggregate 15	Same data points as in aggregate 1 with address range 141 to 150.			

Item	Data point	Registry number	Read/Write	Mapping
Aggregate 16	Same data points as in aggregate 1 with address range 151 to 160.			
Aggregate 17	Same data points as in aggregate 1 with address range 161 to 170.			
Aggregate 18	Same data points as in aggregate 1 with address range 171 to 180.			
Aggregate 19	Same data points as in aggregate 1 with address range 181 to 190.			
Aggregate 20	Same data points as in aggregate 1 with address range 191 to 200.			
Aggregate 21	Same data points as in aggregate 1 with address range 201 to 210.			
Aggregate 22	Same data points as in aggregate 1 with address range 211 to 220.			
Aggregate 23	Same data points as in aggregate 1 with address range 221 to 230.			
Aggregate 24	Same data points as in aggregate 1 with address range 231 to 240.			
Aggregate 25	Same data points as in aggregate 1 with address range 241 to 250.			
Aggregate 26	Same data points as in aggregate 1 with address range 251 to 260.			
Aggregate 27	Same data points as in aggregate 1 with address range 261 to 270.			
Aggregate 28	Same data points as in aggregate 1 with address range 271 to 280.			
Aggregate 29	Same data points as in aggregate 1 with address range 281 to 290.			
Aggregate 30	Same data points as in aggregate 1 with address range 291 to 300.			
Aggregate 31	Same data points as in aggregate 1 with address range 301 to 310.			
Outdoor temperature	Sensor	701	R	Value * 10 (°C)
	Fault 	702	R	0 - OK / 1- Fault
Fire alarm system	Fire alarm system	703	R	0 - OK / 1- Fault
				
Faults	Number of active faults 	708	R	Value
	Fault acknowledge 	709	R/W	0 - / 1- Execute
	Fault indication 	710	R	0 - Off 1 - Flashing 2 - On

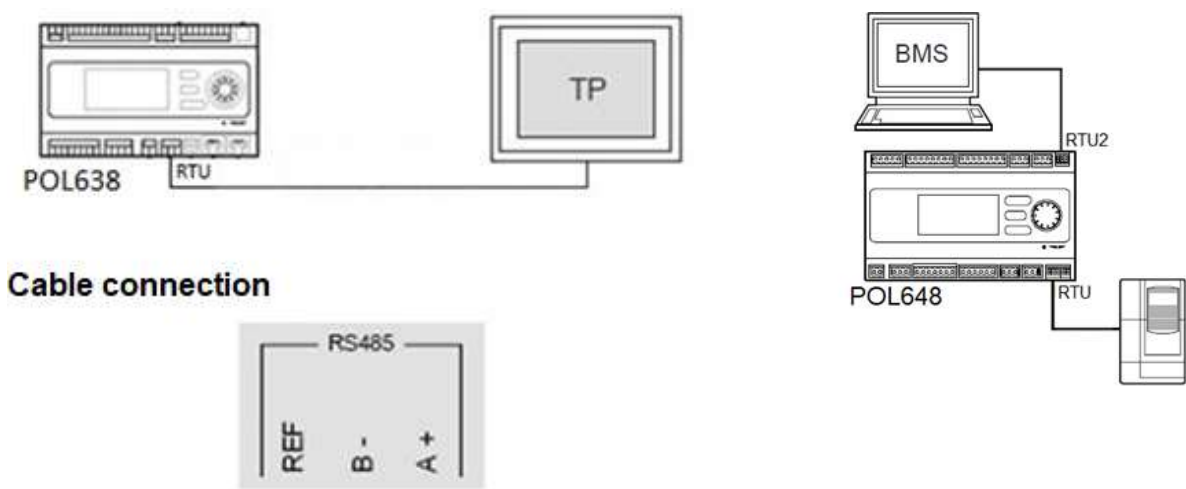
Item	Data point	Registry number	Read/Write	Mapping
Zone 1 - Desired temperatures	3rd Level - heating	711	R/W	Value * 10 (°C)
	2nd level - heating	712	R/W	Value * 10 (°C)
	1st level - heating	713	R/W	Value * 10 (°C)
	Economy - heating	714	R/W	Value * 10 (°C)
	Frost protect - heating	715	R/W	Value * 10 (°C)
	Větrání - heating	716	R/W	Value * 10 (°C)
	3rd level - cooling	717	R/W	Value * 10 (°C)
	2nd level - cooling	718	R/W	Value * 10 (°C)
	1st level - cooling	719	R/W	Value * 10 (°C)
	Economy - cooling	720	R/W	Value * 10 (°C)
	<div> <div>1</div> <div>OperatingZones</div> <div>▶</div> </div>			
	<div> <div>1. Zone</div> <div>Off</div> <div>▶</div> </div>			
	<div> <div>>Heat</div> <div> <div>3rdLevel</div> <div>23.0°C</div> <div>▶</div> </div> <div> <div>2ndLevel</div> <div>20.0°C</div> <div>▶</div> </div> <div> <div>1stLevel</div> <div>17.0°C</div> <div>▶</div> </div> <div> <div>Economy</div> <div>14.0°C</div> <div>▶</div> </div> <div> <div>FrostProtect</div> <div>11.0°C</div> <div>▶</div> </div> <div> <div>Ventilate</div> <div>10.0°C</div> <div>▶</div> </div> </div>			
	<div> <div>>Cool</div> <div> <div>3rdLevel</div> <div>25.0°C</div> <div>▶</div> </div> <div> <div>2ndLevel</div> <div>22.0°C</div> <div>▶</div> </div> <div> <div>1stLevel</div> <div>19.0°C</div> <div>▶</div> </div> <div> <div>Economy</div> <div>16.0°C</div> <div>▶</div> </div> </div>			
	<div> <div>2. Zone</div> <div>Off</div> <div>▶</div> </div>			
	<div> <div>3rdLevel</div> <div>23.0°C</div> <div>▶</div> </div>			
Zone 2 - Desired temperatures	Same data points as in zone 1 with address range 721 to 730.			
Zone 3 - Desired temperatures	Same data points as in zone 1 with address range 731 to 740.			
Zone 4 - Desired temperatures	Same data points as in zone 1 with address range 741 to 750.			
Zone 5 - Desired temperatures	Same data points as in zone 1 with address range 751 to 760.			
Zone 6 - Desired temperatures	Same data points as in zone 1 with address range 761 to 770.			
Zone 7 - Desired temperatures	Same data points as in zone 1 with address range 771 to 780.			
Zone 8 - Desired temperatures	Same data points as in zone 1 with address range 781 to 790.			

Important:

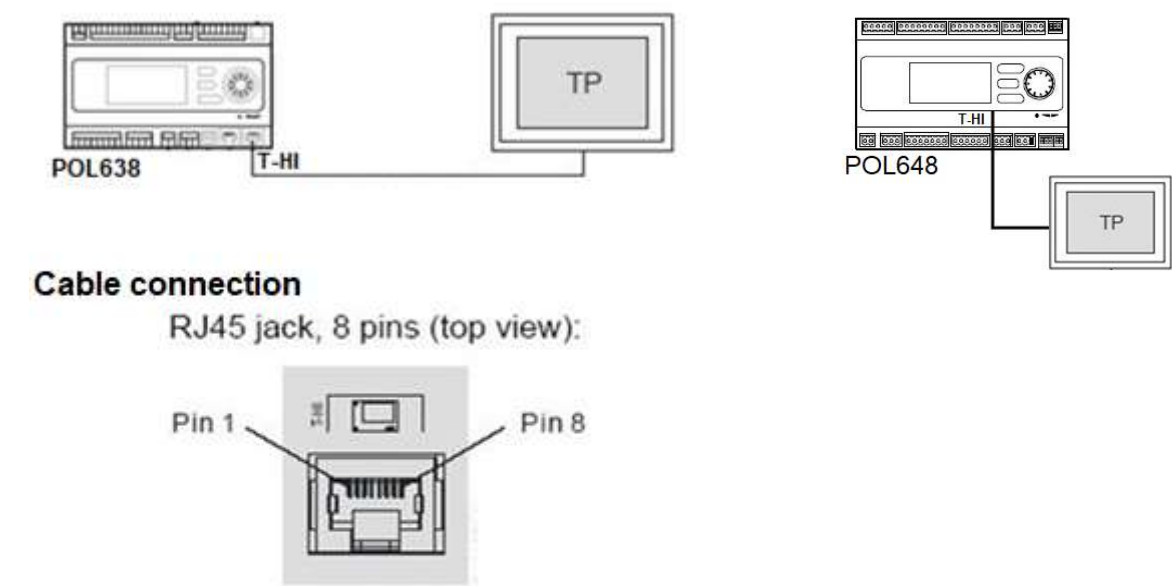
- Not all registers may be accessible. The availability of some registers depends on the specific configuration.
- The address of the registers is 1 less than the register number.
- All registers are Holding Integer.
- The names of aggregates and zones are user-configurable.

Modbus connection variants

1. Modbus RTU - port RS485



2. Modbus RTU - service port T-HI

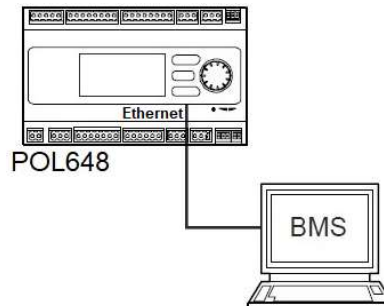
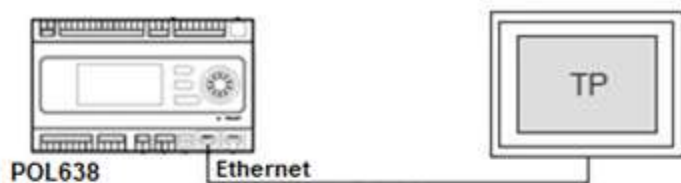


Pin-out for RJ45-
connector

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)

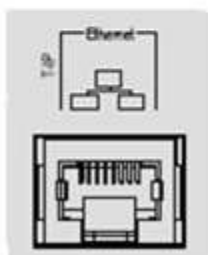
Modbus connection variants

3. Modbus TCP/IP - ethernet port

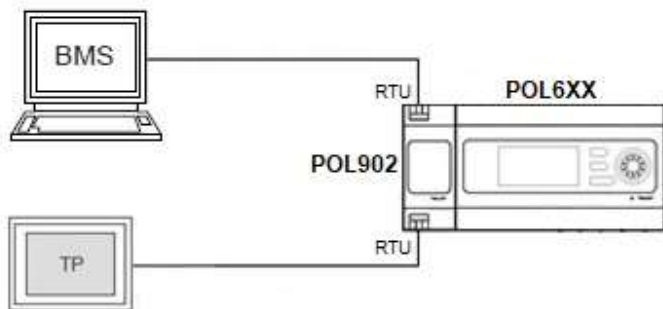


Cable connection

RJ45 jack, 8 pins (top view):



4. Modbus RTU - communication modul POL902



Cable connection

