DATA POINT LIST



KHS CoolFlow data logger and gateway for KHS CoolFlow cold water cooler fig. $611\ 00$

Physical interface	Ethernet
Protocol	Modbus TCP/IP
Port	502
Default IP Adresse	DHCP on / setting via controller menu
Unit ID	0

Access via function codes (FC)					
Coil	Read with FC01; write with FC05				
Discrete-Input	Read with FC02				
Input-Register	Read with FC04				
Holding register	Read with FC03; write with FC06				
Multiple-Register	Read with FC03; write with FC16				

Register address	Register type	Data point	Area [Unit]	Access	Comment	
Data point MASTER						
1	Holding register	Actual temperature of tank	°C/10	Read	Divide value by 10 = temperature in °C	
2	Holding register	Actual temperature of PWC-C inlet	°C/10	Read	Divide value by $10 = \text{temperature in } ^{\circ}\text{C}$	
3	Holding register	Actual temperature of PWC-C outlet	°C/10	Read	Divide value by 10 = temperature in °C	
21	Holding register	Status of relay R1	0-1	Read	Closed/Open refrigerant pump	
22	Holding register	Status of relay R2	0-1	Read	Closed/Open drinking-water circulation pump	
23	Holding register	Status of relay R3	0-1	Read	Closed/Open 230V output at plug contact 1	
24	Holding register	Status of relay R4	0-1	Read	Closed/Open potential-free switching contact relay between plug contact 2 and 3	
25	Holding register	Default speed of process- medium pump	0-100 %	Read	Speed in percent	
26	Holding register	Default speed of drinking- water circulation pump	0-100 %	Read	Speed in percent	
4041	Holding register	Date, day	1-31	Read Write		
4042	Holding register	Date, month	1-12	Read Write		
4043	Holding register	Date, day of week	0-6	Read Write	0-Monday;1-Tuesday;2-Wednesday;3-Thursday; 4-Friday;5-Saturday;6-Sunday	
4044	Holding register	Date, year	2016-2037	Read Write		



Holding register Counter Monday 1st time interval, one of time window in which the circulation is enabled, register describe hours and minutes together Multiple registers Multiple re	Register address	Register type	Data point	Area [Unit]	Access	Comment
Holding register Ime, minutes 0-60 Write	Data point MASTER					
holding register Holding registers Holding registers Holding register Holding registers Holding registers Holding registers Holding register Holding registers	4045	Holding register	Time, hours	0-23		
Holding register Counter Counter United Seconds U-6-0 Write Counter Counter Counter United Seconds U-6-0 Write Counter Counter Counter United Seconds U-6-0 Write Counter Counter Counter Counter United Seconds U-6-0 Write Counter	4046	Holding register	Time, minutes	0-60		
Holding register souther	4047	Holding register	Time, seconds	0-60		
Holding registers SD Card, ree space unit32 Nead registers together / SD Card, ree space unit32 Nead Time window in which the circulation is enabled, end time end time (minutes) write end time windows in which the circulation is enabled, register describe hours and minutes together write register describe hours	4135/ 4136	Holding register		uint32	Read	Read both registers together!
Multiple registers Multiple registers Multiple registers Munday 1st time interval, end time Monday 1st time interval, or 23 h (hours) Multiple registers Munday 2. time interval, or 59 min Read (minutes) Write Multiple registers Multiple regi	9903/ 9904	Holding register	SD card, free space	uint32	Read	
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	44072	Multiple registers		0-23 h	Read	Time window in which the circulation is enabled,



Register address	Register type	Data point	Area [Unit]	Access	Comment
Data point MASTER					
44073	Multiple registers	Tuesday 3. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44074	Multiple registers	Tuesday 3. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44075	Multiple registers	Wednesday 1. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44076	Multiple registers	Wednesday 1. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44077	Multiple registers	Wednesday 1. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44078	Multiple registers	Wednesday 1. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44079	Multiple registers	Wednesday 2. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44080	Multiple registers	Wednesday 2. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44081	Multiple registers	Wednesday 2. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44082	Multiple registers	Wednesday 2. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44083	Multiple registers	Wednesday 3. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44084	Multiple registers	Wednesday 3. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44085	Multiple registers	Wednesday 3. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44086	Multiple registers	Wednesday 3. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44087	Multiple registers	Thursday 1. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44088	Multiple registers	Thursday 1. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44089	Multiple registers	Thursday 1. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44090	Multiple registers	Thursday 1. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44091	Multiple registers	Thursday 2. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44092	Multiple registers	Thursday 2. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44093	Multiple registers	Thursday 2. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44094	Multiple registers	Thursday 2. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44095	Multiple registers	Thursday 3. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44096	Multiple registers	Thursday 3. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44097	Multiple registers	Thursday 3. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44098	Multiple registers	Thursday 3. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44099	Multiple registers	Friday 1. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44100	Multiple registers	Friday 1. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44101	Multiple registers	Friday 1. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together



Register address	Register type	Data point	Area [Unit]	Access	Comment
Data point MASTER					
44102	Multiple registers	Friday 1. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44103	Multiple registers	Friday 2. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44104	Multiple registers	Friday 2. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44105	Multiple registers	Friday 2. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44106	Multiple registers	Friday 2. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44107	Multiple registers	Friday 3. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44108	Multiple registers	Friday 3. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44109	Multiple registers	Friday 3. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44110	Multiple registers	Friday 3. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44111	Multiple registers	Saturday 1. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44112	Multiple registers	Saturday 1. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44113	Multiple registers	Saturday 1. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44114	Multiple registers	Saturday 1. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44115	Multiple registers	Saturday 2. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44116	Multiple registers	Saturday 2. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44117	Multiple registers	Saturday 2. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44118	Multiple registers	Saturday 2. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44119	Multiple registers	Saturday 3. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44120	Multiple registers	Saturday 3. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44121	Multiple registers	Saturday 3. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44122	Multiple registers	Saturday 3. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44123	Multiple registers	Sunday 1. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44124	Multiple registers	Sunday 1. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44125	Multiple registers	Sunday 1. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44126	Multiple registers	Sunday 1. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44127	Multiple registers	Sunday 2. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44128	Multiple registers	Sunday 2. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44129	Multiple registers	Sunday 2. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44130	Multiple registers	Sunday 2. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together



Register address	Register type	Data point	Area [Unit]	Access	Comment	
Data point MASTER						
44131	Multiple registers	Sunday 3. time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together	
44132	Multiple registers	Sunday 3. time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together	
44133	Multiple registers	Sunday 3. time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together	
44134	Multiple registers	Sunday 3. time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together	
1	Coil	Summer/winter changeover	0/1 (off/on)	Read Write	Automatic changeover, summer/wintertime	
2	Coil	Error message present	0/1 (no/yes)	Read Write		
3	Coil	Message memory full	0/1 (no/yes)	Read Write	Circular buffer, the oldest value is overwritten	
4	Coil	Datalogging	0/1 (no/yes)	Read Write	Disables datalogging on the SD card. Data are stored on the controller.	
9998	Holding	Acknowledge error message	0/1	Write	Modbus operation – send value 2 to acknowledge	