DATA POINT LIST

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

KEMPER
DRIVING PROGRESS

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 = temperature in °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	

Register address	Register type	Data point	Area [Unit]	Access	Comment
Data point MASTER					
4045	Holding register	Time, hours	0-23	Read Write	
4046	Holding register	Time, minutes	0-60	Read Write	
4047	Holding register	Time, seconds	0-60	Read Write	
4135/ 4136	Holding register	Cooling request cycle counter	uint32	Read	Read both registers together!
9903/ 9904	Holding register	SD card, free space	uint32	Read	Indicates the free space in megabytes Read both registers together
44051	Multiple registers	Monday 1st time interval, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44052	Multiple registers	Monday 1st time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44053	Multiple registers	Monday 1st time interval, starting time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44054	Multiple registers	Monday 1st time interval, starting time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44055	Multiple registers	Monday 2nd time interval,, end time	0-59 min (minutes)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44056	Multiple registers	Monday 2nd time interval, end time	0-23 h (hours)	Read Write	Time window in which the circulation is enabled, register describe hours and minutes together
44057	Multiple registers	Monday 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
44058	Multiple registers	Monday 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
44059	Multiple registers	Monday 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
44060	Multiple registers	Monday 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
44061	Multiple registers	Monday 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
44062	Multiple registers	Monday 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
44063	Multiple registers	Tuesday 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
44064	Multiple registers	Tuesday 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
44065	Multiple registers	Tuesday 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
44066	Multiple registers	Tuesday 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
44067	Multiple registers	Tuesday 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
44068	Multiple registers	Tuesday 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
44069	Multiple registers	Tuesday 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
44070	Multiple registers	Tuesday 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
44071	Multiple registers	Tuesday 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
44072	Multiple registers	Tuesday 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

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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
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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
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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

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		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
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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
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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
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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