Modbus Register
B7000i, B7000i Dairy

V1.1

HACH®

Be Right™

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
find complete register list on the next pages	0		1				for B7000i Software min. V05.03.00

Modbus Register
B7000i & B7000i Dairy BioTector TOC Analyzer

V 1.1

HACH®

Be Right™

B7000i & B7000i Dairy BioTector TOC Analyzer V 1.1
REACTION RESULTS Registers

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_1_RLOG_TIC	40001 40002	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: TIC Last on-line TIC reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_TOC	40003 40004	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: TOC Last on-line TOC reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_TC	40005 40006	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: TC Last on-line TC reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_VOC	40007 40008	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: VOC Last on-line VOC reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_COD	40013 40014	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: COD Last on-line COD reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_BOD	40015 40016	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: BOD Last on-line BOD reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_LPI	40017 40018	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: LPI Last calculated LPI result Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_LP	40019 40020	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: LP Last calculated LP result Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_FLOW	40021 40022	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: Flow Last flow meter reading Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_TW	40023 40024	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: Total Waste Total waste result Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_CF	40027 40028	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: CF Last on-line CF reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_TIC	40029 40030	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: TIC Last on-line TIC reading Note: reading this register updates the value in its _TIME register.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_2_RLOG_TOC	40031 40032	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: TOC Last on-line TOC reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_TC	40033 40034	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: TC Last on-line TC reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_VOC	40035 40036	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: VOC Last on-line VOC reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_COD	40041 40042	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: COD Last on-line COD reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_BOD	40043 40044	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: BOD Last on-line BOD reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_LPI	40045 40046	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: LPI Last calculated LPI result Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_LP	40047 40048	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: LP Last calculated LP result Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_FLOW	40049 40050	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: Flow Last flow meter reading Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_TW	40051 40052	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: Total Waste Total waste result Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_CF	40055 40056	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: CF Last on-line CF reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_TIC	40057 40058	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: TIC Last on-line TIC reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_TOC	40059 40060	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: TOC Last on-line TOC reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_TC	40061 40062	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: TC Last on-line TC reading Note: reading this register updates the value in its _TIME register.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_3_RLOG_VOC	40063 40064	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: VOC Last on-line VOC reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_COD	40069 40070	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: COD Last on-line COD reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_BOD	40071 40072	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: BOD Last on-line BOD reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_LPI	40073 40074	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: LPI Last calculated LPI result Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_LP	40075 40076	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: LP Last calculated LP result Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_FLOW	40077 40078	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: Flow Last flow meter reading Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_TW	40079 40080	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: Total Waste Total waste result Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_CF	40083 40084	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: CF Last on-line CF reading Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_TIC	40085 40086	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: TIC Last on-line TIC reading Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_TOC	40087 40088	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: TOC Last on-line TOC reading Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_TC	40089 40090	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: TC Last on-line TC reading Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_VOC	40091 40092	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: VOC Last on-line VOC reading Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_COD	40097 40098	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: COD Last on-line COD reading Note: reading this register updates the value in its _TIME register.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_4_RLOG_BOD	40099 40100	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: BOD Last on-line BOD reading Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_LPI	40101 40102	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: LPI Last calculated LPI result Note: reading this register updates the value in its _TIME register.
STREAM_4_RLOG_CF	40105 40106	Float	2	R	< -1.0e6,1.0e6 >	Stream 4: CF Last on-line CF reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_TIC	40107 40108	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: TIC Last on-line TIC reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_TOC	40109 40110	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: TOC Last on-line TOC reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_TC	40111 40112	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: TC Last on-line TC reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_VOC	40113 40114	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: VOC Last on-line VOC reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_COD	40119 40120	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: COD Last on-line COD reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_BOD	40121 40122	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: BOD Last on-line BOD reading Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_LPI	40123 40124	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: LPI Last calculated LPI result Note: reading this register updates the value in its _TIME register.
STREAM_5_RLOG_CF	40127 40128	Float	2	R	< -1.0e6,1.0e6 >	Stream 5: CF Last on-line CF reading Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_TIC	40129 40130	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: TIC Last on-line TIC reading Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_TOC	40131 40132	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: TOC Last on-line TOC reading Note: reading this register updates the value in its _TIME register.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_6_RLOG_TC	40133 40134	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: TC Last on-line TC reading Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_VOC	40135 40136	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: VOC Last on-line VOC reading Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_COD	40141 40142	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: COD Last on-line COD reading Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_BOD	40143 40144	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: BOD Last on-line BOD reading Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_LPI	40145 40146	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: LPI Last calculated LPI result Note: reading this register updates the value in its _TIME register.
STREAM_6_RLOG_CF	40149 40150	Float	2	R	< -1.0e6,1.0e6 >	Stream 6: CF Last on-line CF reading Note: reading this register updates the value in its _TIME register.
RLOG_SMPL_STATUS	40200 40201	Float	2	R	< 0.0,100.0 >	Sample status Quality of sample, measured by the ultrasonic sensor Note: reading this register updates the value in its _TIME register.
RLOG_SMPL_STATUS_TIME	40202 40203	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last Sample status reading
STREAM_1_RLOG_TIC_TIME	40300 40301	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line TIC reading
STREAM_1_RLOG_TOC_TIME	40302 40303	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line TOC reading
STREAM_1_RLOG_TC_TIME	40304 40305	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line TC reading
STREAM_1_RLOG_VOC_TIME	40306 40307	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line VOC reading
STREAM_1_RLOG_COD_TIME	40312 40313	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line COD reading
STREAM_1_RLOG_BOD_TIME	40314 40315	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line BOD reading
STREAM_1_RLOG_LPI_TIME	40316 40317	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last calculated LPI result
STREAM_1_RLOG_LP_TIME	40318 40319	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last calculated LP result. Note only 3 streams available

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_1_RLOG_FLOW_TIME	40320 40321	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 1: Time, Date of last flow meter reading. Note only 3 streams available
STREAM_1_RLOG_TW_TIME	40322 40323	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 1: Time, Date of last calculated total waste result. Note only 3 streams available
STREAM_1_RLOG_CF_TIME	40326 40327	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 1: Time, Date of last on-line CF reading
STREAM_2_RLOG_TIC_TIME	40328 40329	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line TIC reading
STREAM_2_RLOG_TOC_TIME	40330 40331	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line TOC reading
STREAM_2_RLOG_TC_TIME	40332 40333	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line TC reading
STREAM_2_RLOG_VOC_TIME	40334 40335	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line VOC reading
STREAM_2_RLOG_COD_TIME	40340 40341	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line COD reading
STREAM_2_RLOG_BOD_TIME	40342 40343	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line BOD reading
STREAM_2_RLOG_LPI_TIME	40344 40345	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last calculated LPI result
STREAM_2_RLOG_LP_TIME	40346 40347	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last calculated LP result. Note only 3 streams available
STREAM_2_RLOG_FLOW_TIME	40348 40349	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last flow meter reading. Note only 3 streams available
STREAM_2_RLOG_TW_TIME	40350 40351	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last calculated total waste result. Note only 3 streams available
STREAM_2_RLOG_CF_TIME	40354 40355	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 2: Time, Date of last on-line CF reading
STREAM_3_RLOG_TIC_TIME	40356 40357	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line TIC reading
STREAM_3_RLOG_TOC_TIME	40358 40359	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line TOC reading
STREAM_3_RLOG_TC_TIME	40360 40361	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line TC reading
STREAM_3_RLOG_VOC_TIME	40362 40363	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line VOC reading
STREAM_3_RLOG_COD_TIME	40368 40369	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line COD reading
STREAM_3_RLOG_BOD_TIME	40370 40371	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line BOD reading
STREAM_3_RLOG_LPI_TIME	40372 40373	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last calculated LPI result

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_3_RLOG_LP_TIME	40374 40375	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last calculated LP result. Note only 3 streams available
STREAM_3_RLOG_FLOW_TIME	40376 40377	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last flow meter reading. Note only 3 streams available
STREAM_3_RLOG_TW_TIME	40378 40379	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last calculated total waste result. Note only 3 streams available
STREAM_3_RLOG_CF_TIME	40382 40383	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 3: Time, Date of last on-line CF reading
STREAM_4_RLOG_TIC_TIME	40384 40385	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line TIC reading
STREAM_4_RLOG_TOC_TIME	40386 40387	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line TOC reading
STREAM_4_RLOG_TC_TIME	40388 40389	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line TC reading
STREAM_4_RLOG_VOC_TIME	40390 40391	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line VOC reading
STREAM_4_RLOG_COD_TIME	40396 40397	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line COD reading
STREAM_4_RLOG_BOD_TIME	40398 40399	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line BOD reading
STREAM_4_RLOG_LPI_TIME	40400 40401	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last calculated LPI result
STREAM_4_RLOG_CF_TIME	40404 40405	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 4: Time, Date of last on-line CF reading
STREAM_5_RLOG_TIC_TIME	40406 40407	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line TIC reading
STREAM_5_RLOG_TOC_TIME	40408 40409	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line TOC reading
STREAM_5_RLOG_TC_TIME	40410 40411	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line TC reading
STREAM_5_RLOG_VOC_TIME	40412 40413	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line VOC reading
STREAM_5_RLOG_COD_TIME	40418 40419	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line COD reading
STREAM_5_RLOG_BOD_TIME	40420 40421	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line BOD reading
STREAM_5_RLOG_LPI_TIME	40422 40423	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last calculated LPI result
STREAM_5_RLOG_CF_TIME	40426 40427	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 5: Time, Date of last on-line CF reading
STREAM_6_RLOG_TIC_TIME	40428 40429	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line TIC reading

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_6_RLOG_TOC_TIME	40430 40431	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line TOC reading
STREAM_6_RLOG_TC_TIME	40432 40433	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line TC reading
STREAM_6_RLOG_VOC_TIME	40434 40435	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line VOC reading
STREAM_6_RLOG_COD_TIME	40440 40441	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line COD reading
STREAM_6_RLOG_BOD_TIME	40442 40443	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line BOD reading
STREAM_6_RLOG_LPI_TIME	40444 40445	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last calculated LPI result
STREAM_6_RLOG_CF_TIME	40448 40449	integer	2	R	0x00000000- 0xFFFFFFFF	Stream 6: Time, Date of last on-line CF reading

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SETTINGS, CALIBRATION AND DIAGNOSTICS Registers

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
DEVICE_ADDR	40500	integer	1	R/W	0x0000-0x00C8	Device address on Modbus network.
DEVICE_ID	40501	integer	1	R/W	0x0000-0xFFFF	Device class ID code.
MANUF_ID	40502	integer	1	R/W	0x0000-0x00FF	Manufacture ID code.
DEVICE_SERIAL_ID	40503 40504 40505	uint48	3	R	0x000000000000- 0xFFFFFFFFFFFF	Device serial number.
PROTO_REV	40506	integer	1	R	0x0000-0x9999	Modbus protocol implementation revision, expressed in BCD code. rev AA.BB → 0xAABB
FRMW_REV	40507	integer	1	R	0x0000-0x9999	Device firmware revision, expressed in BCD code. rev AA.BB → 0xAABB
REGS_MAP_REV	40508	integer	1	R	0x0000-0x9999	Device Modbus registers map, expressed in BCD code. rev AA.BB → 0xAABB
LOCATION_STR	40509 40510 40511 40512 40513 40514 40515 40516	string	8	R/W	max. 16chars	Device location text info. The string has to be null terminated if shorter than max. size.
BAUDRATE	40517	integer	1	R/W	0x0000-0x0008	Indexed device baud rate used on Modbus. 0 – 1200 bps 1 – 2400 bps 2 – 4800 bps 3 – 9600 bps 4 – 14400 bps 5 – 19200 bps 6 – 38400 bps 7 – 57600 bps 8 – 115200 bps Note: default value should be 7, 57600bps.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
SYS_TIMEDATE	40518 40519	integer	2	R/W	0x00000000- 0xFFFFFFFF	System time & date in seconds elapsed since 1.1.1970. Note: this reg can be changed only when system is fully stopped.
SYS_TIME	40520	integer	1	R/W	0x0000-0x3B3B	System time, encoded in higher/lower bytes. HH:MM → 0xHHMM Note: this reg can be changed only when system is fully stopped.
SYS_DATE	40521 40522	integer	2	R/W	0x00000000- 0x1F0C0833	System date, encoded in 4 bytes bytes. higher word DAY:MON → 0xDDMM lower word YEAR → 0x0YYY Note: this reg can be changed only when system is fully stopped.
REACT_TIC_RANGE1	40550 40551	Float	2	R	< 0.0,1000000.0 >	TIC range 1 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TIC_RANGE2	40552 40553	Float	2	R	< 0.0,1000000.0 >	TIC range 2 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TIC_RANGE3	40554 40555	Float	2	R	< 0.0,1000000.0 >	TIC range 3 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TOC_RANGE1	40556 40557	Float	2	R	< 0.0,1000000.0 >	TOC range 1 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TOC_RANGE2	40558 40559	Float	2	R	< 0.0,1000000.0 >	TOC range 2 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TOC_RANGE3	40560 40561	Float	2	R	< 0.0,1000000.0 >	TOC range 3 Note: shown as 0.0 if in the actual analysis mode this result not available.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
REACT_TC_RANGE1	40562 40563	Float	2	R	< 0.0,1000000.0 >	TC range 1 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TC_RANGE2	40564 40565	Float	2	R	< 0.0,1000000.0 >	TC range 2 Note: shown as 0.0 if in the actual analysis mode this result not available.
REACT_TC_RANGE3	40566 40567	Float	2	R	< 0.0,1000000.0 >	TC range 3 Note: shown as 0.0 if in the actual analysis mode this result not available.
OXP_ANLS	40586	integer	1	R	0x0000-0x07FF	Show the current oxidation analysis type. bit 0 = TIC+TOC. bit 1 = TC. bit 2 = VOC. bit 3 = TIC+TOCe bit 4 = TCe bit 5 = TIC+TOCb bit 6 = TCb bit 7 = VOCb bit 8 = Fast TC
AUTOCAL_PROG	40700	integer	1	R	0x0000-0x000F	bit 0 = off bit 1 = Monday bit 2 = Tuesday bit 3 = Wednesday bit 4 = Thursday bit 5 = Friday bit 6 = Saturday bit 7 = Sunday
AUTOCAL_PROG_TIME	40701	integer	1	R	0x0000-0x3B3B	Time of scheduled autocal, encoded in higher/lower bytes. HH:MM → 0xHHMM
CLOG_CAL_SELECT	40702	integer	1	R/W	0x0000-0x0004	0 = TIC 1 = TOC 2 = TC 3 = TN 4 = TP 5 = TPR Note: this register value defines value of all following CLOG_ registers. By writing into CLOG_CAL_SELECT register updates CLOG_ registers in the similar way the reading of CLOG_CALx_SPAN_STATUS or CLOG_CALx_ZERO does.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
CLOG_CAL1_SPAN_STATUS	40703	integer	1	R	0x0000-0x007F	bit 0 = calibration bit 1 = check bit 2 = calibration successful bit 3 = result outside band bit 4 = calculated from other range bit 5 = calculated from TOC/TC result bit 6 = entered by operator Note: in case of calibration failure on master range, the derived results status need to be update as well.
CLOG_CAL1_SPAN_TIME	40704 40705	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last calibration action Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.
CLOG_CAL1_SPAN_STD	40706 40707	Float	2	R	< -1.0e6,1.0e6 >	Standard used Null if bits 4-6 set in "…status" register Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.
CLOG_CAL1_SPAN_RSLT	40708 40709	Float	2	R	< -1.0e6,1.0e6 >	Result found Null if bits 4-6 set in "…status" register Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.
CLOG_CAL1_SPAN_FACTOR	40710 40711	Float	2	R	< -1.0e6,1.0e6 >	Span adjustment factor currently in use Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.
CLOG_CAL1_ZERO_STATUS	40712	integer	1	R/W	0x0000-0x007F	bit 0 = zero calibration bit 1 = zero check bit 2 = zero successful bit 3 = result outside band bit 4 = calculated from other range bit 5 = TIC: no zero required bit 6 = entered by operator
CLOG_CAL1_ZERO_TIME	40713 40714	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last zero action Note: this register value is only updated when CLOG_CAL1_ZERO_STATUS register is read.
CLOG_CAL1_ZERO_OFFSET	40715 40716	Float	2	R	< -1.0e6,1.0e6 >	Zero offset currently in use Note: this register value is only updated when CLOG_CAL1_ZERO_STATUS register is read.
CLOG_CAL2_SPAN_STATUS	40717	integer	1	R	0x0000-0x007F	bit 0 = calibration bit 1 = check bit 2 = calibration successful bit 3 = result outside band bit 4 = calculated from other range bit 5 = calculated from TOC/TC result bit 6 = entered by operator

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
CLOG_CAL2_SPAN_TIME	40718 40719	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last calibration action Note: this register value is only updated when CLOG_CAL2_SPAN_STATUS register is read.
CLOG_CAL2_SPAN_STD	40720 40721	Float	2	R	< -1.0e6,1.0e6 >	Standard used Null if bits 4-6 set in "…status" register Note: this register value is only updated when CLOG_CAL2_SPAN_STATUS register is read.
CLOG_CAL2_SPAN_RSLT	40722 40723	Float	2	R	< -1.0e6,1.0e6 >	Result found Null if bits 4-6 set in "…status" register Note: this register value is only updated when CLOG_CAL2_SPAN_STATUS register is read.
CLOG_CAL2_SPAN_FACTOR	40724 40725	Float	2	R	< -1.0e6,1.0e6 >	Span adjustment factor currently in use Note: this register value is only updated when CLOG_CAL2_SPAN_STATUS register is read.
CLOG_CAL2_ZERO_STATUS	40726	integer	1	R/W	0x0000-0x007F	bit 0 = zero calibration bit 1 = zero check bit 2 = zero successful bit 3 = result outside band bit 4 = calculated from other range bit 5 = TIC: no zero required bit 6 = entered by operator
CLOG_CAL2_ZERO_TIME	40727 40728	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last zero action Note: this register value is only updated when CLOG_CAL2_ZERO_STATUS register is read.
CLOG_CAL2_ZERO_OFFSET	40729 40730	Float	2	R	< -1.0e6,1.0e6 >	Zero offset currently in use Note: this register value is only updated when CLOG_CAL2_ZERO_STATUS register is read.
CLOG_CAL3_SPAN_STATUS	40731	integer	1	R	0x0000-0x007F	bit 0 = calibration bit 1 = check bit 2 = calibration successful bit 3 = result outside band bit 4 = calculated from other range bit 5 = calculated from TOC/TC result bit 6 = entered by operator
CLOG_CAL3_SPAN_TIME	40732 40733	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last calibration action Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.
CLOG_CAL3_SPAN_STD	40734 40735	Float	2	R	< -1.0e6,1.0e6 >	Standard used Null if bits 4-6 set in "…status" register Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.
CLOG_CAL3_SPAN_RSLT	40736 40737	Float	2	R	< -1.0e6,1.0e6 >	Result found Null if bits 4-6 set in "…status" register Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
CLOG_CAL3_SPAN_FACTOR	40738 40739	Float	2	R	< -1.0e6,1.0e6 >	Span adjustment factor currently in use Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.
CLOG_CAL3_ZERO_STATUS	40740	integer	1	R/W	0x0000-0x007F	bit 0 = zero calibration bit 1 = zero check bit 2 = zero successful bit 3 = result outside band bit 4 = calculated from other range bit 5 = TIC: no zero required bit 6 = entered by operator
CLOG_CAL3_ZERO_TIME	40741 40742	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last zero action Note: this register value is only updated when CLOG_CAL3_ZERO_STATUS register is read.
CLOG_CAL3_ZERO_OFFSET	40743 40744	Float	2	R	< -1.0e6,1.0e6 >	Zero offset currently in use Note: this register value is only updated when CLOG_CAL3_ZERO_STATUS register is read.
PANEL_TEMP	40800 40801	Float	2	R	< -100.0,150.0 >	Current Enclosure Temperature, in deg C
ATM_PRESS	40802 40803	Float	2	R	< 0.0,250.0 >	Atmospheric pressure from sensor, in kPa
CO2A_ZERO	40804 40805	Float	2	R	< -1.0e6,1.0e6 >	CO2 analyser zero setting. Note: this register is reset to 0.0 after power-up and gets set during ANALYZER_ZERO reaction state.
COOLER_TEMP	40806 40807	Float	2	R	< -100.0,150.0 >	Cooler temperature, if measured, in deg C
GCTRL_AIR_PRESS	40812 40813	Float	2	R	< 0.0,250.0 >	Air pressure measured on the gas controller PCB [kPa]
GCTRL_O2_PRESS	40814 40815	Float	2	R	< 0.0,250.0 >	Oxygen pressure measured on the gas controller PCB [kPa]
REACT_STREAM_VALVE	40816	integer	1	R	<0,6 >	Actual analysis reaction stream valve. 0 = no analysis on any stream valve 1 = analysis on stream 1 valve 2 = analysis on stream 2 valve 3 = analysis on stream 3 valve 4 = analysis on stream 4 valve 5 = analysis on stream 5 valve 6 = analysis on stream 6 valve

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
REACT_RANGE	40817	integer	1	R	<0,3 >	Actual analysis reaction range. 0 = no analysis reaction 1 = analysis reaction range 1 2 = analysis reaction range 2 3 = analysis reaction range 3
ACID_RGNT_STATUS	40818	integer	1	R	< 0,999 >	Estimation of days remaining for Acid
BASE_RGNT_STATUS	40819	integer	1	R	< 0,999 >	Estimation of days remaining for Base
REACT_CNTR	40824 40825	integer	2	R	0x00000000- 0xFFFFFFFF	Reaction counter.
SERVICE_REQ	40826	integer	1	R	0x0000-0xFFFF	Service required in xxx days

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ERROR Registers

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
SYS_ALARM_STATUS	49930	integer	1	R	0x0000-0x000F	Alarm Status. Bitwise coding: bit 0 = fault. bit 1 = warning. bit 2 = notification. Bit 3 = DW warning.
SYS_COND_GRP	49950	integer	1	R	0x0000-0xFFFF	bit 0 = fault archive code 01, Low O2 Flow - EX bit 1 = fault archive code 02, Low O2 Flow - SO ..bit 15 Note: For description of Fault Archive codes please refer to User Manual Section "Troubleshooting of System Faults, Warnings and Notification Events"
SYS_COND_GRP	49951	integer	1	R	0x0000-0xFFFF	bit 0 = fault archive code 17, bit 1 = fault archive code 18, ..bit 15 Note: For description of Fault Archive codes please refer to User Manual Section "Troubleshooting of System Faults, Warnings and Notification Events"
		...	...	...		...
SYS_COND_GRP	49966	integer	1	R	0x0000-0xFFFF	bit 0 = fault archive code 241, bit 1 = fault archive code 242, ..bit 15 Note: For description of Fault Archive codes please refer to User Manual Section "Troubleshooting of System Faults, Warnings and Notification Events"

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STATUS & EXTERNAL CONTROL Registers

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
SYS_OP_STATUS	49931	integer	1	R	0x0000-0x003F	Operational Status. Bitwise coding: bit 0 = running. bit 1 = manual running. bit 2 = calibration running. bit 3 = zero running. bit 4 = remote standby activated. bit 5 = maintenance switch activated.
SYS_REM_CTRL	49932	integer	1	R/W	<0,7>	System remote control. 0 = no change 1 = system finish & stop 2 = analysis start 3 = zero cal start 4 = zero check start 5 = span cal start 6 = span check start 7 = reagents purge and zero
SYS_REM_CTRL_STANDBY	49933	integer	1	R/W	< 0,1 >	Set Remote Standby function. 0 = Modbus remote standby deactivated 1 = Modbus remote standby activated Note: the content of this register is internally OR'd with REMOTE STANDBY digital input line (if this one is available in the system).
SYS_REM_CTRL_SYNC	49934	integer	1	R	< 0,1 >	Synchronization output for remote control operation Note: works even without SYNC output defined in system.
SYS_REM_CTRL_RANGE	49935	integer	1	R/W	< 0,3 >	Select next range 0 = not selected / auto 1 = range 1 2 = range 2 3 = range 3 Note: if this register value is 0 then range is selected by EXT_RANGE_MUX1-2 digital input lines (if these one are available in the system). otherwise the content of this register takes precedence over the digital input lines.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
SYS_REM_CTRL_STREAM	49936	integer	1	R/W	0x0000-0x007f	Next stream to be selected: bit 0 = Stream 1. bit 1 = Stream 2. bit 2 = Stream 3. bit 3 = Stream 4. bit 4 = Stream 5. bit 5 = Stream 6. Note: the content of this register is internally OR'd with STREAM SEL 1-6 digital input lines to activate/deactivate particular stream selection
SYS_DEBUG_MODE	45000	integer	1	R/W	0x0000-0x0001	System debug mode register. 0 – normal system operation 1 – system supplies pre-defined Modbus registers values