

Modbus Register  
B3500ul, B3500c, B3500s, B3500dw,  
B3500e

V1.1

B3500ul, B3500c, B3500s, B3500dw, B3500e V1.1

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
find complete register list on the next pages	0		1				for B3500 Software min. V02.12.00



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Modbus Register  
B3500 BioTector TOC Analyzer  
V 1.1

## B3500 BioTector TOC Analyzer V 1.1 REACTION RESULTS Registers

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_1_RLOG_TIC	40001	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: TIC Last on-line TIC reading
	40002					Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_TOC	40003	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: TOC Last on-line TOC reading
	40004					Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_TC	40005	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: TC Last on-line TC reading
	40006					Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_VOC	40007	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: VOC Last on-line VOC reading
	40008					Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_COD	40013	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: COD Last on-line COD reading
	40014					Note: reading this register updates the value in its _TIME register.
STREAM_1_RLOG_BOD	40015	Float	2	R	< -1.0e6,1.0e6 >	Stream 1: BOD Last on-line BOD reading
	40016					Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_TIC	40029	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: TIC Last on-line TIC reading
	40030					Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_TOC	40031	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: TOC Last on-line TOC reading
	40032					Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_TC	40033	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: TC Last on-line TC reading
	40034					Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_VOC	40035	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: VOC Last on-line VOC reading
	40036					Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_COD	40041	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: COD Last on-line COD reading
	40042					Note: reading this register updates the value in its _TIME register.
STREAM_2_RLOG_BOD	40043	Float	2	R	< -1.0e6,1.0e6 >	Stream 2: BOD Last on-line BOD reading
	40044					Note: reading this register updates the value in its _TIME register.

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_3_RLOG_TIC	40057	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: TIC Last on-line TIC reading
	40058					Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_TOC	40059	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: TOC Last on-line TOC reading
	40060					Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_TC	40061	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: TC Last on-line TC reading
	40062					Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_VOC	40063	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: VOC Last on-line VOC reading
	40064					Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_COD	40069	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: COD Last on-line COD reading
	40070					Note: reading this register updates the value in its _TIME register.
STREAM_3_RLOG_BOD	40071	Float	2	R	< -1.0e6,1.0e6 >	Stream 3: BOD Last on-line BOD reading
	40072					Note: reading this register updates the value in its _TIME register.
RLOG_SMPL_STATUS	40200	Float	2	R	< 0.0,100.0 >	Sample status Quality of sample, measured by the ultrasonic sensor
	40201					Note: reading this register updates the value in its _TIME register.
RLOG_SMPL_STATUS_TIME	40202	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last Sample status reading
	40203					
STREAM_1_RLOG_TIC_TIME	40300	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line TIC reading
	40301					
STREAM_1_RLOG_TOC_TIME	40302	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line TOC reading
	40303					
STREAM_1_RLOG_TC_TIME	40304	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line TC reading
	40305					
STREAM_1_RLOG_VOC_TIME	40306	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line VOC reading
	40307					
STREAM_1_RLOG_COD_TIME	40312	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line COD reading
	40313					
STREAM_1_RLOG_BOD_TIME	40314	integer	2	R	0x00000000-0xFFFFFFFF	Stream 1: Time, Date of last on-line BOD reading
	40315					
STREAM_2_RLOG_TIC_TIME	40328	integer	2	R	0x00000000-0xFFFFFFFF	Stream 2: Time, Date of last on-line TIC reading
	40329					

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
STREAM_2_RLOG_TOC_TIME	40330	integer	2	R	0x00000000-0xFFFFFFFF	Stream 2: Time, Date of last on-line TOC reading
	40331					
STREAM_2_RLOG_TC_TIME	40332	integer	2	R	0x00000000-0xFFFFFFFF	Stream 2: Time, Date of last on-line TC reading
	40333					
STREAM_2_RLOG_VOC_TIME	40334	integer	2	R	0x00000000-0xFFFFFFFF	Stream 2: Time, Date of last on-line VOC reading
	40335					
STREAM_2_RLOG_COD_TIME	40340	integer	2	R	0x00000000-0xFFFFFFFF	Stream 2: Time, Date of last on-line COD reading
	40341					
STREAM_2_RLOG_BOD_TIME	40342	integer	2	R	0x00000000-0xFFFFFFFF	Stream 2: Time, Date of last on-line BOD reading
	40343					
STREAM_3_RLOG_TIC_TIME	40356	integer	2	R	0x00000000-0xFFFFFFFF	Stream 3: Time, Date of last on-line TIC reading
	40357					
STREAM_3_RLOG_TOC_TIME	40358	integer	2	R	0x00000000-0xFFFFFFFF	Stream 3: Time, Date of last on-line TOC reading
	40359					
STREAM_3_RLOG_TC_TIME	40360	integer	2	R	0x00000000-0xFFFFFFFF	Stream 3: Time, Date of last on-line TC reading
	40361					
STREAM_3_RLOG_VOC_TIME	40362	integer	2	R	0x00000000-0xFFFFFFFF	Stream 3: Time, Date of last on-line VOC reading
	40363					
STREAM_3_RLOG_COD_TIME	40368	integer	2	R	0x00000000-0xFFFFFFFF	Stream 3: Time, Date of last on-line COD reading
	40369					
STREAM_3_RLOG_BOD_TIME	40370	integer	2	R	0x00000000-0xFFFFFFFF	Stream 3: Time, Date of last on-line BOD reading
	40371					

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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	uint48	3	R	0x000000000000-0xFFFFFFFF	Device serial number.
	40504					
	40505					
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	string	8	R/W	max. 16chars	Device location text info. The string has to be null terminated if shorter than max. size.
	40510					
	40511					
	40512					
	40513					
	40514					
	40515					
	40516					
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  <i>Note: default value should be 7, 57600bps.</i>
SYS_TIMEDATE	40518	integer	2	R/W	0x00000000-0xFFFFFFFF	System time & date in seconds elapsed since 1.1.1970.  <i>Note: this reg can be changed only when system is fully stopped.</i>
	40519					

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



NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
REACT_TC_RANGE1	40562	Float	2	R	< 0.0,1000000.0 >	TC range 1 <i>Note: shown as 0.0 if in the actual analysis mode this result not available.</i>
	40563					
REACT_TC_RANGE2	40564	Float	2	R	< 0.0,1000000.0 >	TC range 2 <i>Note: shown as 0.0 if in the actual analysis mode this result not available.</i>
	40565					
REACT_TC_RANGE3	40566	Float	2	R	< 0.0,1000000.0 >	TC range 3 <i>Note: shown as 0.0 if in the actual analysis mode this result not available.</i>
	40567					
OXF_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  <i>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.</i>

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  <i>Note: in case of calibration failure on master range, the derived results status need to be update as well.</i>
CLOG_CAL1_SPAN_TIME	40704	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last calibration action
	40705					<i>Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.</i>
CLOG_CAL1_SPAN_STD	40706	Float	2	R	< -1.0e6,1.0e6 >	Standard used
	40707					Null if bits 4-6 set in "...status" register <i>Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.</i>
CLOG_CAL1_SPAN_RSLT	40708	Float	2	R	< -1.0e6,1.0e6 >	Result found
	40709					Null if bits 4-6 set in "...status" register <i>Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.</i>
CLOG_CAL1_SPAN_FACTOR	40710	Float	2	R	< -1.0e6,1.0e6 >	Span adjustment factor currently in use
	40711					<i>Note: this register value is only updated when CLOG_CAL1_SPAN_STATUS register is read.</i>
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	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last zero action
	40714					<i>Note: this register value is only updated when CLOG_CAL1_ZERO_STATUS register is read.</i>
CLOG_CAL1_ZERO_OFFSET	40715	Float	2	R	< -1.0e6,1.0e6 >	Zero offset currently in use
	40716					<i>Note: this register value is only updated when CLOG_CAL1_ZERO_STATUS register is read.</i>
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	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last calibration action
	40719					<i>Note: this register value is only updated when CLOG_CAL2_SPAN_STATUS register is read.</i>
CLOG_CAL2_SPAN_STD	40720	Float	2	R	< -1.0e6,1.0e6 >	Standard used
	40721					Null if bits 4-6 set in "...status" register
CLOG_CAL2_SPAN_RSLT	40722	Float	2	R	< -1.0e6,1.0e6 >	Result found
	40723					Null if bits 4-6 set in "...status" register
CLOG_CAL2_SPAN_FACTOR	40724	Float	2	R	< -1.0e6,1.0e6 >	Span adjustment factor currently in use
	40725					<i>Note: this register value is only updated when CLOG_CAL2_SPAN_STATUS register is read.</i>
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	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last zero action
	40728					<i>Note: this register value is only updated when CLOG_CAL2_ZERO_STATUS register is read.</i>
CLOG_CAL2_ZERO_OFFSET	40729	Float	2	R	< -1.0e6,1.0e6 >	Zero offset currently in use
	40730					<i>Note: this register value is only updated when CLOG_CAL2_ZERO_STATUS register is read.</i>
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	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last calibration action
	40733					<i>Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.</i>
CLOG_CAL3_SPAN_STD	40734	Float	2	R	< -1.0e6,1.0e6 >	Standard used
	40735					Null if bits 4-6 set in "...status" register
						<i>Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.</i>

NAME	REGISTER	DATA TYPE	LENGTH	ACCESS MODE	MIN/MAX	DESCRIPTION
CLOG_CAL3_SPAN_RSLT	40736	Float	2	R	< -1.0e6,1.0e6 >	Result found Null if bits 4-6 set in "...status" register
	40737					<i>Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.</i>
CLOG_CAL3_SPAN_FACTOR	40738	Float	2	R	< -1.0e6,1.0e6 >	Span adjustment factor currently in use
	40739					<i>Note: this register value is only updated when CLOG_CAL3_SPAN_STATUS register is read.</i>
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	integer	2	R	0x00000000-0xFFFFFFFF	Time, Date of last zero action
	40742					<i>Note: this register value is only updated when CLOG_CAL3_ZERO_STATUS register is read.</i>
CLOG_CAL3_ZERO_OFFSET	40743	Float	2	R	< -1.0e6,1.0e6 >	Zero offset currently in use
	40744					<i>Note: this register value is only updated when CLOG_CAL3_ZERO_STATUS register is read.</i>
PANEL_TEMP	40800	Float	2	R	< -100.0,150.0 >	Current Enclosure Temperature, in deg C
	40801					
ATM_PRESS	40802	Float	2	R	< 0.0,250.0 >	Atmospheric pressure from sensor, in kPa
	40803					
CO2A_ZERO	40804	Float	2	R	< -1.0e6,1.0e6 >	CO2 analyser zero setting.
	40805					<i>Note: this register is reset to 0.0 after power-up and gets set during ANALYZER_ZERO reaction state.</i>
GCTRL_AIR_PRESS	40812	Float	2	R	< 0.0,250.0 >	Air pressure measured on the gas controller PCB [kPa]
	40813					
GCTRL_O2_PRESS	40814	Float	2	R	< 0.0,250.0 >	Oxygen pressure measured on the gas controller PCB [kPa]
	40815					
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	integer	2	R	0x00000000-0xFFFFFFFF	Reaction counter.
	40825					
SERVICE_REQ	40826	integer	1	R	0x0000-0xFFFF	Service required in xxx days



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## B3500 BioTector TOC Analyzer V 1.1 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"

## B3500 BioTector TOC Analyzer V 1.1 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  <i>Note: the content of this register is internally OR'd with REMOTE STANDBY digital input line (if this one is available in the system).</i>
SYS_REM_CTRL_SYNC	49934	integer	1	R	< 0,1 >	Synchronization output for remote control operation  <i>Note: works even without SYNC output defined in system.</i>
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  <i>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.</i>

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



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