

Schaltgerät

## Salmson-Control CC-Booster with Modbus RTU

Software V3.0201FC/7.0201FC

Additions and deviations of the installation and manual „Salmson-CC-System“ (2063766; in version of 02/2009)

### for 6.2.2 (menu structure)

Menu 4.3.8 is used for the Modbus settings.

### Zu 6.3.1 System operating modes

The CC-system can connected to modbus by RS485 port of the plc. The CC-system communicates as a slave. The address of the slave can set in the menu 4.3.8. It is possible to set the address between 1 and 99. In the following table you can find the settings and the register of modbus.

old Modbus specification	datapoint	register / content	chance writing / reading	parameters
40003	2	Setpoint1 of the actual controlmode	only writing	Integer, measurement range range 0-10000
40004	3	general commands	only writing	Bit 0 – fault acknowledge Bit 1 – store setpoint Bit 2 – 15 reserve
40005	4	commands pump 1	only writing	Bit 0 – automatic mode Bit 1 – hand mode Bit 2 – off Bit 3 – 15 reserve
40006	5	commands pump 2	only writing	Bit 0 – automatic mode Bit 1 – hand mode Bit 2 – off Bit 3 – 15 reserve
40007	6	commands pump 3	only writing	Bit 0 – automatic mode Bit 1 – hand mode Bit 2 – off Bit 3 – 15 reserve
40008	7	commands pump 4	only writing	Bit 0 – automatic mode Bit 1 – hand mode Bit 2 – off Bit 3 – 15 reserve
40009	8	commands pump 5	only writing	Bit 0 – automatic mode Bit 1 – hand mode Bit 2 – off Bit 3 – 15 reserve

old Modbus specification	datapoint	register / content	chance writing / reading	parameters
40010	9	commands pump 6	only writing	Bit 0 – automatic mode Bit 1 – hand mode Bit 2 – off Bit 3 – 15 reserve
40011	10	actual value	only reading	Integer, measurement range 0-25bar, range 0-10000
40012	11	actual setpoint	only reading	Integer, measurement range range 0-10000
40013	12	frequency fc	only reading	Integer, measurement range 0-100%, range 0-1000
40014	13	current fc	only reading	Integer, measurement range 0-100%, range 0-1000
40015	14	pump 1 status	only reading	Bit 0 – pump runs Bit 1 – automatic active Bit 2 – hand active Bit 3 – off Bit 4 – fault Bit 5 – 15 reserve
40016	15	pump 2 status	only reading	Bit 0 – pump runs Bit 1 – automatic active Bit 2 – hand active Bit 3 – off Bit 4 – fault Bit 5 – 15 reserve
40017	16	pump 3 status	only reading	Bit 0 – pump runs Bit 1 – automatic active Bit 2 – hand active Bit 3 – off Bit 4 – fault Bit 5 – 15 reserve
40018	17	pump 4 status	only reading	Bit 0 – pump runs Bit 1 – automatic active Bit 2 – hand active Bit 3 – off Bit 4 – fault Bit 5 – 15 reserve
40019	18	pump 5 status	only reading	Bit 0 – pump runs Bit 1 – automatic active Bit 2 – hand active Bit 3 – off Bit 4 – fault Bit 5 – 15 reserve
40020	19	pump 6 status	only reading	Bit 0 – pump runs Bit 1 – automatic active Bit 2 – hand active Bit 3 – off Bit 4 – fault Bit 5 – 15 reserve
<b>old Modbus</b>	<b>datapoint</b>	<b>register /</b>	<b>chance</b>	<b>parameters</b>

specification		content	writing / reading	
40021	20	general status	only reading	Bit 0 – SBM Bit 1 – SSM Bit 2 – external off active Bit 3 – reserve pump active
40022	21	fault status	only reading	Bit 0 – pump1 fault E61 Bit 1 – pump2 fault E62 Bit 2 – pump3 fault E63 Bit 3 – pump4 fault E64 Bit 4 – pump5 fault E65 Bit 5 – pump6 fault E66 Bit 6 – pre-pressure min. E42 Bit 7 – output pressure max. E44 Bit 8 – output pressure min. E43 Bit 9 – fc error E20 Bit 10 – sensor fault E40 Bit 11 – reserve Bit 12 – reserve Bit 13 – reserve Bit 14 – reserve Bit 15 – battery low E88
40023	22	Controlmode	only reading	Integer for controlmodes: 0: p-c 1: dp-c 2: dp-v 3: dT-c 4: dT-v 5: n(TV) 6: n(TR) 7: n(TA) 8: n(TP)

### !!!ATTENTION BITSET!!!

0 = FALSE  
1 = TRUE

#### for 6.4 (options/additions)

An interface converter from RS232 to RS485 is installed.

#### for table 2 (description of menu)

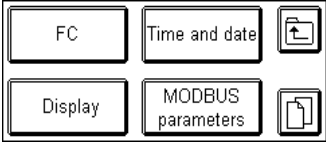
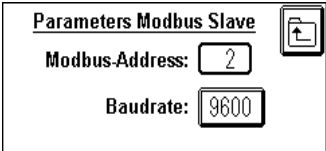
Shift of the menu numbering (see above : for 6.2.2)

#### Menu 0 (main screen)

The description of menu changes as follows:

Indicate the operating conditions of the pumps and the current actual pressure.  
Call of the pump attitudes, the **pressure indication** and the main menu.

**For Table 2**

Menu -No./ Call by:	Display	Description	Parameter settings/ functions	Factory settings
	Visible for: <u>User 1 and higher</u> <u>User 2 and higher</u> <u>Service</u>		Changeable by: <u>User 1 and higher</u> <u>User 2 and higher</u> <u>Service</u>	
4.3	<b>Parameter set-up menu</b> 	(Page 2)  Call up of the FC, time of day, display settings and Modbus parameters	none	-
4.3.8	<b>Modbus parameters</b> 	Address of the Modbus-Slave  Baudrate of the communication	***  ***	[0..99] <b>2</b>  [9600/19200]  <b>9600</b>

## for 7.2 (electrical connection)

To make the modbus connection to the cc-switchbox please look into the electrical drawing.