

# Gäller from serien: 111131

PointId	Comment	Group	MinLimit	MaxLimit	FactoryDefault	ModbusReg	32bit reg	RegScaling	PointUnit	PointAccess	Save	FxPointType
LANGUAGE	Språk (0=SUOMI, 1=ENGLISH, 2=SVENSKA, 3=DANSKA)	1 SYSTEM SETTINGS	0	3	2	1	false	1		ReadWrite	true	IND
FACTORY_SETTINGS	Fabriksåterställning (1=ÅTERSTÄLL, återgår till 0)	1 SYSTEM SETTINGS	0	1	0	2	false	1		ReadWrite	true	IND
ACK_ALARMS	Larmkvittens (1=KVITTERA, återgår till 0)	1 SYSTEM SETTINGS	0	1	0	3	false	1		ReadWrite	true	IND
ALARM_COUNT	Antal aktiva larm	1 SYSTEM SETTINGS	0	100	0	4	false	1		ReadOnly	false	AI
SUM_ALARM	Summalarm (0=Inga aktiva okvitterade larm, 1=Aktiva/kvitterade larm)	1 SYSTEM SETTINGS	0	1	0	5	false	1		ReadOnly	false	IND
ALARM_SOUND	Larmsignal (0=EJ AKTIV, 1=AKTIVERA)	1 SYSTEM SETTINGS	0	1	0	6	false	1		ReadWrite	true	IND
TIME_DAYOFWEEK	Veckodag	1 SYSTEM SETTINGS	0	10	0	10	false	1		ReadWrite	false	AI
TIME_YEAR	År	1 SYSTEM SETTINGS	2000	3000	2026	11	false	1		ReadWrite	false	AI
TIME_MONTH	Månad	1 SYSTEM SETTINGS	1	12	5	12	false	1		ReadWrite	false	AI
TIME_DAY	Dag	1 SYSTEM SETTINGS	1	31	26	13	false	1		ReadWrite	false	AI
TIME_HOUR	Timme	1 SYSTEM SETTINGS	0	23	1	14	false	1		ReadWrite	false	AI
TIME_MIN	Minut	1 SYSTEM SETTINGS	0	59	1	15	false	1		ReadWrite	false	AI
MULTI_FW_VER	Multi24 firmware version	1 SYSTEM SETTINGS	0.00	10.00	2.82	17	false	100		ReadOnly	false	AI
MULTI_SW_VER	Multi24 applikation version	1 SYSTEM SETTINGS	0.00	10.00	1.51	18	false	100		ReadOnly	false	AI
ID_SYSTEM_PRESSURE_IN	Measurement System pressure transmitter, Analog input 1	2 PHYSICAL INPUTS	0.00	10.00	0.00	101	false	100 bar		ReadOnly	false	AI
ID_VESSEL_PRESSURE_IN	Measurement Filling vessel pressure transmitter, Analog input 2	2 PHYSICAL INPUTS	0.00	20.00	0.00	102	false	100 bar		ReadOnly	false	AI
ID_AI_INPUT_03_IN	Measurement input 3, PT1000	2 PHYSICAL INPUTS	-50.0	120.0	0.0	103	false	10 °C		ReadOnly	false	AI
ID_AI_INPUT_04_IN	Measurement input 4, PT1000	2 PHYSICAL INPUTS	-50.0	120.0	0.0	104	false	10 °C		ReadOnly	false	AI
ID_AI_INPUT_05_IN	Measurement input 5, PT1000	2 PHYSICAL INPUTS	-50.0	120.0	0.0	105	false	10 °C		ReadOnly	false	AI
ID_AI_INPUT_06_IN	Measurement input 6, 0-10V	2 PHYSICAL INPUTS	0.0	100.0	0.0	106	false	10 %		ReadOnly	false	AI
ID_DI_INPUT_09_IN	Digital input 9 (NO)	2 PHYSICAL INPUTS	0	1	0	107	false	1		ReadOnly	false	AI
ID_DI_INPUT_10_IN	Digital input 10 (NO)	2 PHYSICAL INPUTS	0	1	0	108	false	1		ReadOnly	false	AI
ID_DI_INPUT_11_IN	Digital input 11 (NO)	2 PHYSICAL INPUTS	0	1	0	109	false	1		ReadOnly	false	AI
ID_DI_INPUT_12_IN	Digital input 12 (NO)	2 PHYSICAL INPUTS	0	1	0	110	false	1		ReadOnly	false	AI
ID_PUMP_MAX_RUNTIME_IN	Setting Maximum pump runtime (s)	4 SETTINGS	0	120	60	111	false	1 s		ReadWrite	true	AI
ID_PUMP_STOP_RUNTIME_IN	Setting Max pump runtime, stop (s) (v1.51)	4 SETTINGS	0	300	120	112	false	1 s		ReadWrite	true	AI
ID_SYSTEM_PRESSURE_HYS1_IN	Setting System pressure hys. Start Pump (bar)	4 SETTINGS	0.0	10.0	0.2	113	false	10 bar		ReadWrite	true	AI
ID_VALVE_MAX_RUNTIME_IN	Setting Maximum valve runtime (s)	4 SETTINGS	0	60	30	114	false	1 s		ReadWrite	true	AI
ID_SYSTEM_PRESS_LIMIT_HIGH_IN	Setting System pressure alarmlimit High (bar)	4 SETTINGS	0.0	10.0	5.0	115	false	10 bar		ReadWrite	true	AI
ID_SYSTEM_PRESS_LIMIT_LOW_IN	Setting System pressure alarmlimit Low (bar)	4 SETTINGS	0.0	10.0	2.0	116	false	10 bar		ReadWrite	true	AI
ID_VESSEL_LEV_LIMIT_LOW_IN	Setting Vessel alarmlimit Low (%)	4 SETTINGS	0	100	30	117	false	1 %		ReadWrite	true	AI
ID_SYSTEM_PRESSURE_SETP_IN	Setting System pressure setpoint (bar)	4 SETTINGS	0.0	10.0	3.5	118	false	10 bar		ReadWrite	true	AI
ID_SYSTEM_PRESSURE_HYS2_IN	Setting System pressure hys. Start MV (bar)	4 SETTINGS	0.0	10.0	0.2	119	false	10 bar		ReadWrite	true	AI
ID_STARTORDER_PUMP_OUT	Startorder Pump output, Digital output 1	3 PHYSICAL OUTPUTS	0	1	0	120	false	1		ReadOnly	false	DO
ID_STARTORDER_VALVE_OUT	Startorder Valve output, Digital output 2	3 PHYSICAL OUTPUTS	0	1	0	121	false	1		ReadOnly	false	DO
ID_GENERAL_ALARM_OUT	General alarm output, Digital output 4	3 PHYSICAL OUTPUTS	0	1	0	124	false	1		ReadOnly	false	DO
ID_SYSTEM_PRESSURE_OUT	Output System pressure, Analog output 1 (0-100% = 0-10Bar)	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	125	false	10 bar		ReadOnly	false	AO
ID_VESSEL_VOLUME_OUT	Output Vessel Volume, Analog output 2 (0-100%)	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	126	false	10 %		ReadOnly	false	AO
ID_VESSEL_PERCENTAGE_OUT	Output Vessel Volume, percentage	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	100	0	127	false	1 %		ReadOnly	false	AO
ID_PUMP_ACT_RUNTIME_OUT	Counter pump runtime (s)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	600	0	128	false	1 s		ReadOnly	false	AI
ID_VALVE_ACT_RUNTIME_OUT	Counter valve runtime (s)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	600	0	129	false	1 s		ReadOnly	false	AI
ID_VESSEL_CAL_MAX_OUT	Measurement Filling vessel pressure transmitter, calibrated max value	6 SOFT MEASUREMENTS AND CONTROL POINTS	0.00	20.00	9.50	130	false	100 bar		ReadOnly	true	AI
ID_DO_OUTPUT_03_OUT	Spare. Startorder Pump output, Digital output 3	3 PHYSICAL OUTPUTS	0	1	0	131	false	1		ReadOnly	false	DO
ID_AO_OUTPUT_03_OUT	Spare Analog output 3	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	134	false	10 %		ReadWrite	false	AO
ID_AO_OUTPUT_04_OUT	Spare Analog output 4	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	135	false	10 %		ReadWrite	false	AO
ID_AO_OUTPUT_05_OUT	Spare Analog output 5, TRIAC	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	136	false	10 %		ReadWrite	false	AO
ID_AO_OUTPUT_06_OUT	Spare Analog output 6, TRIAC	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	137	false	10 %		ReadWrite	false	AO
ID_AO_OUTPUT_07_OUT	Spare Analog output 7, TRIAC	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	138	false	10 %		ReadWrite	false	AO
ID_AO_OUTPUT_08_OUT	Spare Analog output 8, TRIAC	3 PHYSICAL OUTPUTS	0.0	100.0	0.0	139	false	10 %		ReadWrite	false	AO

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ID_VESSEL_CALIBRATE_IN	Activate Calibration of vessel max level (100%)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	1	0	140	false	1		ReadWrite	false	IND
ID_VESSEL_LEV_LIMIT_HIGH_IN	Setting Vessel alarmlimit High (%)	4 SETTINGS	0	200	150	141	false	1 %		ReadWrite	true	AI
ID_ALARM_COUNT_RES_IN	Reset all alarm counters	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	1	0	142	false	1		ReadWrite	false	IND
ID_RUNTIME_COUNT_RES_IN	Reset all runtime/starts counters (v1.51)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	1	0	143	false	1		ReadWrite	false	IND
ID_VALVE_OPEN_TIME_IN	Setting, motorvalve endpoint time (s) (v1.51)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	300	45	144	false	1 s		ReadWrite	true	AI
ID_SYSTEM_PRESSURE_LOW_L	Alarm Low system pressure	7 ALARMS	0	12	0	150	false	1		ReadOnly	false	AL
ID_SYSTEM_PRESSURE_HIGH_L	Alarm High system pressure	7 ALARMS	0	12	0	151	false	1		ReadOnly	false	AL
ID_PUMP_RUNTIME_L	Alarm High runtime pump (v1.51)	7 ALARMS	0	12	0	152	false	1		ReadOnly	false	AL
ID_VOLUME_LOW_L	Alarm Vessel low level	7 ALARMS	0	12	0	153	false	1		ReadOnly	false	AL
ID_PUMP_ALARM_L	Alarm Pump (v1.51)	7 ALARMS	0	12	0	154	false	1		ReadOnly	false	AL
ID_VOLUME_HIGH_L	Alarm Vessel high level	7 ALARMS	0	12	0	156	false	1		ReadOnly	false	AL
ID_VALVE_RUNTIME_L	Alarm High runtime valve	7 ALARMS	0	12	0	157	false	1		ReadOnly	false	AL
ID_PUMP_ENABLE_IN	Activate Fill System, Digital input 7	2 PHYSICAL INPUTS	0	1	0	200	false	1		ReadOnly	false	IND
ID_VALVE_ENABLE_IN	Activate Drain System, Digital input 8	2 PHYSICAL INPUTS	0	1	0	201	false	1		ReadOnly	false	IND
ID_PUMP_MANUAL_IN	Remote Activate Fill System	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	1	0	202	false	1		ReadWrite	false	IND
ID_VALVE_MANUAL_IN	Remote Activate Drain System	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	1	0	203	false	1		ReadWrite	false	IND
ID_PUMP_TOT_RUNTIME_OUT	Counter, pump total runtime (h) (v1.51)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	2000001	0	210	true	1 h		ReadOnly	true	AI
ID_VALVE_TOT_RUNTIME_OUT	Counter, valve total runtime (h) (v1.51)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	2000001	0	212	true	1 h		ReadOnly	true	AI
ID_PUMP_TOT_RUNTIME_OUT	Counter, pump total runtime (h) (v1.51)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	2000001	0	214	true	1		ReadOnly	true	AI
ID_VALVE_TOT_RUNTIME_OUT	Counter, valve total runtime (h) (v1.51)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	2000001	0	216	true	1		ReadOnly	true	AI
ID_SYSTEM_PRESSURE_LOW_LMV	Counter, Alarm Low system pressure (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	230	true	1		ReadOnly	true	AI
ID_SYSTEM_PRESSURE_HIGH_LMV	Counter, Alarm High system pressure (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	232	true	1		ReadOnly	true	AI
ID_PUMP_RUNTIME_LMV	Counter, Alarm High runtime pump (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	234	true	1		ReadOnly	true	AI
ID_VOLUME_LOW_LMV	Counter, Alarm Vessel low level (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	236	true	1		ReadOnly	true	AI
ID_PUMP_ALARM_LMV	Counter, Alarm Pump (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	238	true	1		ReadOnly	true	AI
ID_VOLUME_HIGH_LMV	Counter, Alarm Vessel high level (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	240	true	1		ReadOnly	true	AI
ID_VALVE_RUNTIME_LMV	Counter, Alarm High runtime valve (future function)	6 SOFT MEASUREMENTS AND CONTROL POINTS	0	65535	0	242	true	1		ReadOnly	true	AI

**Gu/Orangemarkerade punkter är fria in-/utgångar att använda för "eget behov", direkt via modbus. Se manual för inkoppl.**  
**Borttagen/ingen funktion i programmet. Version 1.43**

**Registertyp=** Samtliga register (R, RW) är Holding register (16bit).

Kan anropas med funktionskod för både Single- och Multiple Holding (6 resp 3)

Registeradresserna är "direkta" och inte av sk noll-index typ. Dvs du anger adresserna exakt som de står här i listan

**Baudrate** (MA, MB)= "autosense" (9600, 19200, 38400, 57600) Börja gärna med 9600bd

**Parity=** None

**Databits=** 8

**Stopbits=** 1

**32bit reg =TRUE :** High register contain lower part of value

**Information ang larmpunkternas status/registervärde, register 150-157:**

Status 0 = Inaktivt/återgått (kvitterat)

Status 1 = Aktivt (kvitterat)

Status 10 = Inaktivt/återgått (okvitterat)

Status 11 = Aktivt (okvitterat)

Status 12 = Larmpunkten inaktiverad (avstängd)

Kvittens av (samtliga) larm sker via knapp i display, alternativt via register 3, som sätts till 1 (återgår automatiskt till 0)

Antal tillfällen, räknare, för resp larm läses vid reg 231-238

**Modbus master ansluts till plintarna MA(+) resp MB(-)**

Slavadressen (1-63) ställs in med omkopplare på kortet i kapslingen. (BCD)

Defaultadress= 1:

omkopplare(sw) 6 = ON

Exempel: adress 5 resp 18:

sw6=on + sw4=on (1+4)

sw5=on + sw2=on (2+16)

