

# Fieldbuslist

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## System-specific data-point list Modbus EC

### EC Lift

Holding register (Protocol)	Name	Data type	Scale & unit	Elements	Access
40001 (0)	Version communication profile	UINT16	0.001		R
40002 (1)	Wink service	BOOL			RW
40003 (2)	Switch box type	ENUM		8. EC 9. ECe	R
40014 (13)	Bus command timer	ENUM		0. - 1. Off 2. Set 3. Active 4. Reset 5. Manual	RW
40015 (14)	Drives on/off	BOOL			RW
40025 (24)	Control mode	ENUM		10. fill 11. empty	R
40026 (25)	Current value	INT16	1 cm		R
40041 (40)	Pump 1 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40042 (41)	Pump 2 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40043 (42)	Pump 3 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40062 (61)	Switch box state	BITMAP		0: SBM 1: SSM 8: EBM Pump 1 9: EBM Pump 2 10: EBM Pump 3	R
40139 - 40140 (138 - 139)	Error state	BITMAP32		0: Sensor error 4: Dry Run (TLS) 5: Pump 1 Alarm 6: Pump 2 Alarm 7: Pump 3 Alarm 15: High water 16: Priority off 19: Plausibility 21: Net supply	R
40141 (140)	Acknowledge	BOOL			R
40142 (141)	Alarm history index	UINT16	1		RW
40143 (142)	Alarm history error code	UINT16	0.1		R
40198 (197)	State Float switches	BITMAP		0: Dry run 1: Pumps off 2: Pump 1 on 3: Pump 2 on 4: High water	R
40204 (203)	Set points water level 1 start	UINT16	1 cm		RW
40205 (204)	Set points water level 2 start	UINT16	1 cm		RW
40206 (205)	Set points water level 3 start	UINT16	1 cm		RW
40212 (211)	Set points water level 1 stop	UINT16	1 cm		RW
40213 (212)	Set points water level 2 stop	UINT16	1 cm		RW
40214 (213)	Set points water level 3 stop	UINT16	1 cm		RW
40220 (219)	Dry run level	UINT16	1 cm		RW
40222 (221)	High water level	UINT16	1 cm		RW

## EC Booster

Holding register (Protocol)	Name	Data type	Scale & unit	Elements	Access
40001 (0)	Version communication profile	UINT16	0.001		R
40002 (1)	Wink service	BOOL			RW
40003 (2)	Switch box type	ENUM		8. EC 9. ECe	R
40014 (13)	Bus command timer	ENUM		0. - 1. Off 2. Set 3. Active 4. Reset 5. Manual	RW
40015 (14)	Drives on/off	BOOL			RW
40026 (25)	Current value	INT16	0.1 bar		R
40027 (26)	Active setpoint value	INT16	0.1 bar		R
40041 (40)	Pump 1 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40042 (41)	Pump 2 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40043 (42)	Pump 3 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40062 (61)	Switch box state	BITMAP		0: SBM 1: SSM 8: EBM Pump 1 9: EBM Pump 2 10: EBM Pump 3	R
40068 (67)	Set point 1	UINT16	0.1 bar		RW
40139 - 40140 (138 - 139)	Error state	BITMAP32		0: Sensor error 1: Pressure maximum 2: Pressure minimum 3: FC Error 4: Dry Run (TLS) 5: Pump 1 Alarm 6: Pump 2 Alarm 7: Pump 3 Alarm 21: Net supply	R
40141 (140)	Acknowledge	BOOL			R
40142 (141)	Alarm history index	UINT16	1		RW
40143 (142)	Alarm history error code	UINT16	0.1		R

## ECe Booster

Holding register (Protocol)	Name	Data type	Scale & unit	Elements	Access
40001 (0)	Version communication profile	UINT16	0.001		R
40002 (1)	Wink service	BOOL			RW
40003 (2)	Switch box type	ENUM		8. EC 9. ECe	R
40014 (13)	Bus command timer	ENUM		0. - 1. Off 2. Set 3. Active 4. Reset 5. Manual	RW
40015 (14)	Drives on/off	BOOL			RW
40026 (25)	Current value	INT16	0.1 bar		R
40027 (26)	Active setpoint value	INT16	0.1 bar		R
40041 (40)	Pump 1 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40042 (41)	Pump 2 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40043 (42)	Pump 3 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40062 (61)	Switch box state	BITMAP		0: SBM 1: SSM 8: EBM Pump 1 9: EBM Pump 2 10: EBM Pump 3	R
40068 (67)	Set point 1	UINT16	0.1 bar		RW
40139 - 40140 (138 - 139)	Error state	BITMAP32		0: Sensor error 1: Pressure maximum 2: Pressure minimum 3: FC Error 4: Dry Run (TLS) 5: Pump 1 Alarm 6: Pump 2 Alarm 7: Pump 3 Alarm	R
40141 (140)	Acknowledge	BOOL			R
40142 (141)	Alarm history index	UINT16	1		RW
40143 (142)	Alarm history error code	UINT16	0.1		R

## EC Fire

Holding register (Protocol)	Name	Data type	Scale & unit	Elements	Access
40001 (0)	Version communication profile	UINT16	0.001		R
40002 (1)	Wink service	BOOL			RW
40003 (2)	Switch box type	ENUM		8. EC 9. ECe	R
40014 (13)	Bus command timer	ENUM		0. - 1. Off 2. Set 3. Active 4. Reset 5. Manual	RW
40026 (25)	Current value	INT16	0.1 bar		R
40027 (26)	Active setpoint value	INT16	0.1 bar		R
40041 (40)	Pump 1 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40042 (41)	Pump 2 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40043 (42)	Pump 3 mode	ENUM		0. Off 1. Hand 2. Auto	RW
40062 (61)	Switch box state	BITMAP		0: SBM 1: SSM 8: EBM Pump 1 9: EBM Pump 2 10: EBM Pump 3	R
40068 (67)	Set point 1	UINT16	0.1 bar		RW
40074 (73)	Application	ENUM		6. FLA	R
40139 - 40140 (138 - 139)	Error state	BITMAP32		0: Sensor error 1: Pressure maximum 2: Pressure minimum 3: FC Error 4: Dry Run (TLS) 5: Pump 1 Alarm 6: Pump 2 Alarm 7: Pump 3 Alarm 21: Net supply	R
40141 (140)	Acknowledge	BOOL			R
40142 (141)	Alarm history index	UINT16	1		RW
40143 (142)	Alarm history error code	UINT16	0.1		R

## Detailed description of data points EC

### Version communication profile

<b>Description</b>	The version number for fieldbus list used in this switch box. The number before the point changes if the list is incompatible with previous version. For example if new items were replaced. The number after the point changes if changes are compatible with previous version of the list. So, you only need to update your control system if you want to use new features.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40001
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	0.001
<b>Supported Systems</b>	All EC panels supported

### Wink service

<b>Description</b>	If wink service is activated by writing a value larger than zero an indicator in the HMI is blinking for 30 seconds (SC: pump symbol LED; CC: fieldbus symbol) to help to identify the device.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40002
<b>Modbus data type</b>	BOOL
<b>Supported Systems</b>	All EC panels supported

### Switch box type

<b>Description</b>	This item describes the controller and the current variant.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40003
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. SC 1. SC...FC 2. SCe 3. CC 4. CC...FC 5. CCe 6. SCe NWB 7. CCe NWB 8. EC 9. ECe 10. ECe NWB 11. SC WIS
<b>Supported Systems</b>	All EC panels supported

### Bus command timer

<b>Description</b>	This parameter is responsible for access via HMI and/or fieldbus. Several possibilities exist. Option "manual", HMI and fieldbus can access the switch box parameters. In this case HMI and fieldbus have the same priority and last written value is active. Option "Off", the HMI is locked completely, so only fieldbus has access. If fieldbus fails, you have no access to the switch box until fieldbus is recovered. Option "Set", HMI is locked and a five minutes timer starts and the state of this register changes to "Active". The "Set" option has to be send at least every five minutes to keep the "Active" state. If Option "Set" is not send again, state changes to "Reset" and HMI gets back access and fieldbus is locked. To unlock fieldbus you have to send "Off", "Set" , or "Manual" before you can access any other register through the fieldbus.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40014

<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. - 1. Off 2. Set 3. Active 4. Reset 5. Manual
<b>Supported Systems</b>	All EC panels supported

#### Drives on/off

<b>Description</b>	To switch automatic and all pumps on or off. Pump kick does not take place if drives are off which is different from Extern off.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40015
<b>Modbus data type</b>	BOOL
<b>Supported Systems</b>	EC Lift, EC Booster, ECe Booster, EC HVAC, EC Rain, EC WP

#### Control mode

<b>Description</b>	The control mode adapts the controller to the physical quantity to be used in the application, i.e pressure, temperatures or differences. Not all control modes are supported by all panels.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40025
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. p-c 1. dp-c 2. dp-v 3. dT-c 4. dT-v 5. n(TV) 6. n(TR) 7. n(TP) 8. n(TA) 9. n-c 10. fill 11. empty 12. FTS 13. cleans/day 14. cleans/month 15. Baseloade operation 16. Heating up operation 17. Main operation 18. Hand mode 19. Max mode 20. Filter purging
<b>Supported Systems</b>	EC Lift, EC HVAC, EC Rain, EC WP

#### Current value

<b>Description</b>	This data point returns the current value of the measured physical quantity. Depending on the active control mode and switch box the unit bar is used for pressure constant control mode (p-c), the unit meter for differential pressure constant control mode (dp-c, dp-v), Kelvin for differential temperature constant control mode (dT-c, dT-v) and degree Celsius for temperature constant control mode (T-c). For clean application it shows the time in minutes or hours until next flushing.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40026
<b>Modbus data type</b>	INT16



<b>Modbus scale and unit</b>	0.1 bar 0.1 m 0.1 K 0.1 °C 1 min 0.1 h 0.1 psi 1 cm 0.1 m <sup>3</sup> /h
<b>Supported Systems</b>	All EC panels supported

#### Active setpoint value

<b>Description</b>	The active set point. The unit depends on the active control mode. Depending on the active control mode and switch box the unit bar is used for pressure constant control mode (p-c), the unit meter for differential pressure constant control mode (dp-c, dp-v), Kelvin for differential temperature constant control mode (dT-c, dT-v) and degree Celsius for temperature constant control mode (T-c) and for temperature controlled pump speed. For clean application it represents the number of flushings per day or month.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40027
<b>Modbus data type</b>	INT16
<b>Modbus scale and unit</b>	0.1 bar 0.1 m 0.1 K 0.1 °C 1/day 1/month 0.1 psi 0.1 m <sup>3</sup> /h
<b>Supported Systems</b>	EC Booster, ECe Booster, EC HVAC, EC Fire, EC Rain, EC WP

#### Pump 1 mode

<b>Description</b>	The pump mode (off, on, auto) for the single pumps 1.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40041
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	All EC panels supported

#### Pump 2 mode

<b>Description</b>	The pump mode (off, on, auto) for the single pumps 2.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40042
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	All EC panels supported

#### Pump 3 mode

<b>Description</b>	The pump mode (off, on, auto) for the single pumps 3.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40043
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	EC Lift, EC Booster, ECe Booster, EC HVAC, EC Fire, EC Rain

### Pump 4 mode

<b>Description</b>	The pump mode (off, on, auto) for the single pumps 4.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40044
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	EC HVAC, EC Rain

### Switch box state

<b>Description</b>	The global state (Operation; Alarm) of the switch box.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40062
<b>Modbus data type</b>	BITMAP
<b>Modbus elements</b>	0: SBM 1: SSM 2: External off 3: Setpoint 2 4: External setpoint 5: SBM output (0:Run / 1:Ready) 6: SSM output (0:Fall / 1: Raise) 7: Fire mode active 8: EBM Pump 1 9: EBM Pump 2 10: EBM Pump 3 11: EBM Pump 4 12: Setpoint 3 13: Stagnation flush 14: Pump emergency drainage
<b>Supported Systems</b>	All EC panels supported

### Set point 1

<b>Description</b>	First set-point of controller. Depending on the active control mode and switch box the unit bar is used for pressure constant control mode (p-c), the unit meter for differential pressure constant control mode (dp-c, dp-v), Kelvin for differential temperature constant control mode (dT-c, dT-v) and degree Celsius for temperature constant control mode (T-c) and for temperature controlled pump speed.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40068
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	0.1 bar 0.1 m 0.1 K 0.1 °C 0.1 psi
<b>Supported Systems</b>	EC Booster, ECe Booster, EC HVAC, EC Fire, EC Rain, EC WP

### Application

<b>Description</b>	Returns the application the software ist designed for
<b>Added</b>	31.101
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40074
<b>Modbus data type</b>	ENUM

<b>Modbus elements</b>	0. Booster 1. HVAC 2. WP 3. Lift 4. FFS-Diesel 5. FFS-Electro 6. FLA 7. Clean 8. Rain
<b>Supported Systems</b>	EC HVAC, EC Fire, EC Rain, EC WP

#### Error state

<b>Description</b>	The error states for the switch box as a bitmap. Therefore several errors can be indicated simultaneously. No all errors are supported by all panels.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40139 - 40140
<b>Modbus data type</b>	BITMAP32
<b>Modbus elements</b>	0: Sensor error 1: Pressure maximum 2: Pressure minimum 3: FC Error 4: Dry Run (TLS) 5: Pump 1 Alarm 6: Pump 2 Alarm 7: Pump 3 Alarm 8: Pump 4 Alarm 9: Pump 5 Alarm 10: Pump 6 Alarm 11: Pump 7 Alarm 12: Pump 8 Alarm 13: Frost 14: Battery Low 15: High water 16: Priority off 17: Extern Alarm 18: Redundancy 19: Plausibility 20: Slave communication 21: Net supply 22: Leakage 23: CAN failure 24: Prepressure sensor 25: External signal 26: Sensor error 2 27: Sensor error 3 28: MOIB failure 29: Temperature Maximum 30: Temperature Minimum 31: Maximum number of pump cycles
<b>Supported Systems</b>	All EC panels supported

#### Acknowledge

<b>Description</b>	Use this data point to give a receipt for an alarm.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40141
<b>Modbus data type</b>	BOOL
<b>Supported Systems</b>	All EC panels supported

#### Alarm history index

<b>Description</b>	The error history has a certain number of entries depending on the switch box type (CC 0..35, SC 0..15). To access an entry provide its index here. Then you can read its values in the following registers.
<b>Added</b>	31.000
<b>Access</b>	RW
<b>Level</b>	All users

<b>Modbus register</b>	40142
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1
<b>Supported Systems</b>	All EC panels supported

#### Alarm history error code

<b>Description</b>	The Error code of the selected error history entry as described in manual.
<b>Added</b>	31.000
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40143
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	0.1
<b>Supported Systems</b>	All EC panels supported

#### State Float switches

<b>Description</b>	The state of installed float switches
<b>Added</b>	31.102
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40198
<b>Modbus data type</b>	BITMAP
<b>Modbus elements</b>	0: Dry run 1: Pumps off 2: Pump 1 on 3: Pump 2 on 4: High water 5: Dry run 2 6: Pump 1 off 7: Pump 2 off
<b>Supported Systems</b>	EC Lift, EC WP

#### Set points water level 1 start

<b>Description</b>	The level where pump 1 starts.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40204
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### Set points water level 2 start

<b>Description</b>	The level where pump 2 starts.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40205
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### Set points water level 3 start

<b>Description</b>	The level where pump 3 starts.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40206
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### Set points water level 1 stop

<b>Description</b>	The level where pump 1 stops.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40212

<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### Set points water level 2 stop

<b>Description</b>	The level where pump 2 stops.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40213
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### Set points water level 3 stop

<b>Description</b>	The level where pump 3 stops.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40214
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### Dry run level

<b>Description</b>	The level where high water is reported.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40220
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### High water level

<b>Description</b>	The level where high water is reported.
<b>Added</b>	31.102
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40222
<b>Modbus data type</b>	UINT16
<b>Modbus scale and unit</b>	1 cm
<b>Supported Systems</b>	EC Lift

#### States Rain

<b>Description</b>	State information related to rain water application
<b>Added</b>	31.105
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40122
<b>Modbus data type</b>	BITMAP
<b>Modbus elements</b>	0: SBM 1: SSM
<b>Supported Systems</b>	EC Rain

#### Cistern pump 1 mode

<b>Description</b>	The pump mode (off, on, auto) for the single cistern pumps.
<b>Added</b>	31.105
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40127
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	EC Rain

#### Cistern pump 2 mode

<b>Description</b>	The pump mode (off, on, auto) for the single cistern pumps.
<b>Added</b>	31.105
<b>Access</b>	RW
<b>Level</b>	All users

<b>Modbus register</b>	40128
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	EC Rain

#### Replenish valve mode

<b>Description</b>	The valve mode (off, on, auto) for the replenish valve.
<b>Added</b>	31.105
<b>Access</b>	RW
<b>Level</b>	All users
<b>Modbus register</b>	40130
<b>Modbus data type</b>	ENUM
<b>Modbus elements</b>	0. Off 1. Hand 2. Auto
<b>Supported Systems</b>	EC Rain

#### State of level detection

<b>Description</b>	The state of installed switches to detect water levels in the tank
<b>Added</b>	31.105
<b>Access</b>	R
<b>Level</b>	All users
<b>Modbus register</b>	40132
<b>Modbus data type</b>	BITMAP
<b>Modbus elements</b>	0: S0 1: S3 2: S1 3: S4 4: S2 5: S5
<b>Supported Systems</b>	EC Rain