4. Jak sterować pompą Stratos MAXO za pośrednictwem protokołu Modbus:

- a) Załączanie/Wyłączanie
- b) Zmiana trybu pracy
- c) Zmiana wartości zadanej
- d) Blokowanie pompy

Poniżej zmienne Modbus dla pompy Stratos Maxo (analogicznie dla pomp Stratos)

a) Załączanie/Wyłączanie - adres Pump Comand in #40

6.2.7.3.40 Pump Command in

property	value
address	40
scope	pump system
function	input value
data type	WORD
Module versions	CIF-Module Modbus RTU (1.0099.99)

Name	description	support
Pump on	This is the base signal. This signal represents the normal "ON" command. This signal is effektive, if no override functions are active.	GLANDLESS, GLANDED_SINGLE, GLANDED_MULTI, STRATOS_MAXO
Override min	This is the base signal. This signal overrides the pump (system) command with "MIN" command.	GLANDLESS, GLANDED_SINGLE, GLANDED_MULTI, STRATOS_MAXO
Override max	This is the base signal. This signal overrides the pump (system) command with "MAX" command.	GLANDLESS, GLANDED_SINGLE, GLANDED_MULTI, STRATOS_MAXO
TRUE	This is the base signal. This signal represens a static '1' bit, typically for compatibility purpose. For write acces, this bit shall always be '1'.	PLC_INT
Override off	This is the base signal. This signal overrides the pump (system) command with "OFF" command.	GLANDLESS, GLANDED_SINGLE, GLANDED_MULTI, STRATOS_MAXO
Override on	This is the base signal. This signal overrides the pump (system) command with "ON" command.	GLANDLESS, GLANDED_SINGLE, GLANDED_MULTI, PLC_INT
FALSE	This is the base signal. This signal represens a static '0' bit, typically for compatibility purpose. For write acces, this bit shall always be '0'.	PLC_INT
FALSE	This is the base signal. This signal represens a static '0' bit, typically for compatibility purpose. For write acces, this bit shall always be '0'.	PLC_INT
Auto Night Mode	This is the base signal. This signal represents the automatic setback mode . This mode forces the device to run at lower settings than the normal duty point.	GLANDLESS, STRATOS_MAXO
	Pump on Override min Override max TRUE Override off Override on FALSE FALSE Auto Night	Pump on This is the base signal. This signal represents the normal "ON" command. This signal is effektive, if no override functions are active. This is the base signal. This signal overrides the pump (system) command with "MIN" command. True This is the base signal. This signal overrides the pump (system) command with "MAX" command. True This is the base signal. This signal represens a static '1' bit, typically for compatibility purpose. For write acces, this bit shall always be '1'. Override off This is the base signal. This signal overrides the pump (system) command with "OFF" command. Override on This is the base signal. This signal overrides the pump (system) command with "ON" command. FALSE This is the base signal. This signal represens a static '0' bit, typically for compatibility purpose. For write acces, this bit shall always be '0'. This is the base signal. This signal represens a static '0' bit, typically for compatibility purpose. For write acces, this bit shall always be '0'. Auto Night This is the base signal. This signal represents the automatic setback mode. This mode forces the device to

This is the base signal. This register controls the pump. It can be switched on or off. furthermore, the on/off command can be overridden with min or max values.

Poniżej przesyłam również priorytetyzację komend:

6.1.1 Command priority

Beside the normal on/off control of the pump there are several methods to override this. The following list shows the priority of those commands. Lower numbers have higher priority

- Override off
 Override max
 Override min
 Override on

b) Zmiana Trybu pracy - adres Control Function #42

6.2.7.3.42 Control Function

property	value
address	42
scope	pump system
function	input value
data type	WORD
Module versions	CIF-Module Modbus RTU (1.0099.99)

▼ click left for details on enumeration

value	Name	description	support
1	Gen_Spd	This control mode operates the device with constant speed.	Stratos MAXO; Stratos; IL_E,; MVIE,
2	CONST FREQ	reserved	-
3	Gen_PHdConst	This control mode operates the device with constant differential pressure.	Stratos MAXO; Stratos; IL_E,;
4	Gen_PHdVar	This control mode operates the device with a differential pressure which varies with the flow.	Stratos MAXO; Stratos; IL_E,;
5	CONST_PRESSURE	This control mode operates the device with constant discharge pressure.	MVIE,;
6	TEMP_VARIABLE	This control mode operates the device with a differential pressure which varies with the fluid temperature.	CIF-/IF-Module internal; Stratos;
6	CONST POWER	reserved	-
7	CONST_HEAD	reserved	-
8	CONST_FLOW	reserved	=
9	Gen T	This control mode operates the device with constant temperature for generic application.	Stratos MAXO;
10	Gen_TDiff	This control mode operates the device with constant differential temperature for generic application.	Stratos MAXO;
11	CONST LEV	reserved	-
15	INVALID	Invalid value	CIF-/IF-Module internal;
16	HeatRadiator_PHd	This control mode operates the device with a differential pressure which varies with the flow for heating radiator applications.	Stratos MAXO;
17	HeatRadiator DA	This control mode operates the device with automatic setpoint adjustement (dynamic adapt) for heating radiator applications.	Stratos MAXO;
18	HeatRadiator T	This control mode operates the device with constant temperature for heating radiator application.	Stratos MAXO:

c) Zmiana wartości zadanej - adres *duty point #1*

property	value
address	1
scope	pump system
function	input value
data type	INT
unit	%
scale	0.5
range low	-32768
range high	32766
error value	32767
Module versions	CIF-Module Modbus RTU (1 00 99 99)

This is the base signal. It contains the relative duty point of the device. The valid range is not necessarily 0...100 %. a duty point of 0 % is not necessarily linked to the OFF state of the device. Support reference: CIF-/IF-Module mapped; Stratos; IL_E, ...; MVIE, ...;

d) Blokowanie wyświetlacza pompy – pompa (panel sterowniczy) po aktywowaniu sterowania za pomocą Modbus powinien być zablokowany domyślnie, jeżeli tak nie jest można to zrobić za pomocą addressu Bus Command Timer #300 nadając wartość 1

6.2.7.3.300 Bus Command Timer

property	value
address	300
scope	pump system
function	input value / active value
data type	BYTE
range low	1
range high	10
Module versions	CIF-Module Modbus RTU (1.0099.99)

▼ click left for details on enumeration

value	Name	description	support
1	OFF	The functionality Bus Command timer is deactivated. The local operation is blocked permanently.	CIF-/IF-Module internal;
2	SET	This value starts a lockout time for the local pump operation. The lockout time may be adjustable.	CIF-/IF-Module internal;
3	ACTIVE	This value indicates that the lockout time is active.	CIF-/IF-Module internal;
4	RESET	This value indicates that the lockout time which was started with the signal "Bus Command Timer SET" has elapsed. Local operation of the device is possible, the write to the device over the communication interface is blocked.	CIF-/IF-Module internal;
5	MANUAL	This value indicates that the local as well as the remote operation is possible. The commands are accepted according "last write wins".	CIF-/IF-Module internal;
6	SET_PRESET	This value starts a lockout time for the local pump operation. After the lockout time has elapsed, PRESET values are used for operation. The lockout time may be adjustable.	CIF-/IF-Module internal;
7	ACTIVE_PRESET	This value indicates that the lockout time which was started with the signal "Bus Command Timer SET_PRESET" is currently active. After the lockout time has elapsed, PRESET values are used for operation.	CIF-/IF-Module internal;
8	RESET_PRESET	This value indicates that the lockout time which was started with the signal "Bus Command Timer SET" has elapsed. Local operation of the device is possible, the write to the device over the communication link is blocked. When this signal becomes aftive, PRESET values are set once for operations.	CIF-/IF-Module internal;
9	MANUAL_PRESET	This value indicates that the local as well as the remote operation is possible. The commands are accepted according "last write wins". When this signal becomes active, PRESET values are loaded once.	CIF-/IF-Module internal;
10	INVALID	Invalid value	CIF-/IF-Module internal;

This is the base signal. When using an IE-Module the local menu may be disabled by factory setting. The local menu can be enabled permanently by writing the value MANUAL. To use the local nenu only when the BAS cyclem falls: epeale writing the value SET at least before the octorional Bus Command Timer timeout time (edulat of rivole values 50%). The activation is soldered and survives a power set. When the mechanism is no longer meeded write OFF to reset to factory setting (11 the BAS falls). The men menu can be entered to adjust the settings, E54 may be displayed at the pump. If it is desired to load fallback values when the bus faulure event occurres, then use SET_PRESET instead of SET to trigger the bus command timer. This funtionality is available with Modbus and before in Endough such as the pump. If it is desired to load fallback values when the bus faulure event occurres, then use SET_PRESET instead of SET to trigger the bus command timer. This funtionality is available with Modbus and before the information of the pump. If it is desired to load fallback values when the bus faulure event occurres, then use SET_PRESET instead of SET to trigger the bus command timer. This funtionality is available with Modbus and the pump of the p

Support reference: CIF-/IF-Module internal;