Quick Start Guide

AcowaZoo

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AcowaZoo - Devices

AcowaZoo application provides a user interface tool for working with devices:

- SPIDER (universal pump controller);
- GEKKO (data logger);
- PUMA (universal single pump controller);

SPIDER



Overview





Connecting to PC - USB

A SPIDER connects to a PC using a Micro-USB connector cable. The AcowaZoo tool application auto-detects the SPIDER and establish a connection.

Connecting via TCP

To connect a SPIDER using TCP IP, the SPIDER needs to be configured with the correct TCP settings (IP address and port). These settings are set using the USB interface to AcowaZoo tool. When TCP-settings in the SPIDER is correctly configured a TCP connection can be established.

GEKKO



Overview





Connecting to PC - USB

A GEKKO connects to a PC using a Micro-USB connector cable. The AcowaZoo tool application autodetects the GEKKO and establish a connection.

Connecting via TCP

To connect a GEKKO using TCP IP the GEKKO needs to be configured with the correct TCP settings (IP address and port). These settings are set using the USB interface to AcowaZoo tool When TCP-settings in the GEKKO is correctly configured a TCP connection can be established.

Connecting via AcowaCore

AcowaZoo supports communication to GEKKO data loggers via AcowaCore software. This means that it is now possible to write setpoint changes to your devices locally via the server, without having to physically go to the individual devices.





Overview





Connecting to PC - USB

A PUMA connects to a PC using a Micro-USB connector cable. The AcowaZoo tool application auto-detects the PUMA and establish a connection.

Connecting via TCP

To connect a PUMA using TCP IP, the PUMA needs to be configured with the correct TCP settings (IP address and port). These settings are set using the USB interface to AcowaZoo tool. When TCP-settings in the PUMA is correctly configured a TCP connection can be established.

AcowaZoo - Application

Installation

AcowaZoo tool is compatible with computers using *Windows 7 or 10*. Run the installation program "AcowaZooSetup.exe" ("AcowaZooSetup_win32.exe" on 32-bit operating systems) and follow the on-screen instructions:



Driver installation

After installing AcowaZoo tool (and before try device connection and communication), on computers using **Windows 7** operating system, an install of extra driver files will be necessary. Right-click in files available in AcowaZoo tool install directory (typically C:\Program Files\AcowaZoo\driver): "fsl_ucwxp.inf", "Gekko_usb.inf", "Puma_usb.inf" and select "install". Windows will now ask for your permission to install driver files.

NOTE: In some cases, installation requires the use of Windows Device Management. This will require administrative rights.

Overview

Start AcowaZoo tool application, select the default application language and the device type (SPIDER, GEKKO or PUMA).

Once the AcowaZoo tool application is running, it will automatically check for a SPIDER, GEKKO or PUMA connection via USB.



SPIDER View

When a SPIDER device is connected via USB, it can be configured using the tools below.

AcowaZoo			- □ >
iles View Tools Help			
🚎 🦪 🔄 🖬 🖾 Actio	ons Menu (see section: "Actions Menu") +	÷÷	
Ali +V OV I1 I2 I3 I4 I5 :	16 AI 1		
Settings Menu	0-20 mA or 4-20 mA Minimum scaling (ep: 5m scaled 500) Maximum scaling (ep: 5m scaled 500)		0/20 mA 4/20 mA 0 + 500 +
SPIDER (see section:	High limit in use High Limit Label	Low limit in use O Low limit Label Low Limit Label	
"SPIDER – Settings Menu")	High limit delay in secs. High limit delay in secs. High limit alarm call	SU Low mint dee point S Low limit deely in secs. Low limit alarm call	
ACOWA	High alarm limit in use	Low alarm limit in use	
	High Alarm Limit Label High alarm limit set point High alarm limit delay in secs. High alarm limit delar m call	0 1 Low Alarm Lint Label 1 Low Alarm Lint Label 1 Low Alarm Lint delay in secs.	0 0 1 0 1
	Regulator	soo costion: "CDIDED Display Window")	
No Spider Connected	Regulator function	see section. SPIDER - Display Window)	Pump control
r Name Si	ider Pump Settings Current Settings Flow interface Additional Options		
any Com	variable start level (eg: 0.5 m scale 50)		
an Settings Ontions	Leak indicator timer (minutes) Interlocking enabled		
timeout in secs.	1200 No. of pumps		1 Pump 2 Pumps
connect timeout in secs.	1200 Start level 1		0 🛨
(see section: "SPIDER – Details")	INET Stop level 1		
	Start level 2		0 +
sync (gainnet)	Stop level 2		0 🛟
r local time	oc Delay in secs.		
ied IP address (from ISP)	Only one pump running		
and PIN enabled			
ame			
word			
investion loaded from file "Colwork/projects/aithub/ACC	WA-ZOO/model/ /1numn-installation GB snid"		

GEKKO View

When a GEKKO device is connected via USB, it can be configured using the tools below.

File View Excloses Actions Menu (see section: "Actions Menu"); Image: Settings Menu (see section: General actions); Image: Settings Menu (see section: Setings Menu (see secting) (settings Menu (see	<u> </u>	-				waZoo
Actions Menu (see section: "Actions Menu"):						View Tools Help
All				tions Menu") 😑 🕒	IS Menu (see section: "Action	< 🔁 🔳 😩 Action
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th>_</th> <th></th> <th></th> <th></th> <th></th> <th></th>	_					
Settings Menu Get and 40 mt "Get KKO - Settings Menu" Image and 40 mt Image and 40 mt Image and 40 mt						
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(see section: "GEKKO - Settings Menu") ************************************	0 ±				Minimum scaling (eg: 5m scaled 500) Maximum scaling (eg: 5m scaled 500)	
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			Low limit in use		High limit in use	AUGWA
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Construction C			Low Alarm Limit Label	Display	High Alarm Limit Label	
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Image: Section Code Image: Section </th <th></th> <th></th> <th>Low alarm limit alarm call</th> <th></th> <th>High alarm limit alarm call</th> <th></th>			Low alarm limit alarm call		High alarm limit alarm call	
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was name Leado(Carrig-La) ographic postsion addua;Comi III Settings Options 1 PS through in secs. 30 P						IMEI: 862831032236148
agraphic position deva (Crail "Settings Options 1 1 R5 Immouth nace. 30 Provet (see section: "GEKKO – Details")" Soci						ime Gekko(contig-GB)
Result in sect. 30 Note: Section: "GEKKO – Details"						hic position
AS timeout in sect. 30 N Section: "GEKKO – Details" Soci						Settings Options
Neport (see section: "GEKKO – Details ^{myster}						eout in secs. 30
						(see section: "GEKKO - Details")
re-sync (gsm net) Off On						c (gsm net) Off On
						ocal time
signed IP address (from ISP)						IP address (from ISP)
4 card P2N enabled No - Yes						PIN enabled No Yes
						PIN 1
aword						d
<u></u>						

PUMA View

When a PUMA device is connected via USB, it can be configured using the tools below.

🚆 AcowaZoo			- 🗆 X
File View Tools Help			
🖻 < 🔜 🛅 🖬 Action	IS Menu (see section: "Actions Menu	쾟ੇ 🗹 ⇔≑⇔⇔	
AL DI1 DI2	Al 1		
Sottings Monu	Signal Label		0
	0-20 mA or 4-20 mA Minimum scaling (eg: Sm scaled 500) Maximum scaling (eg: Sm scaled 500)		0/20 mA 4/20 mA 0 ÷ 500 ÷
(see section.	High limit in use	Low limit in use	
"PLIMA - Settings Menu")	High Limit Label High limit set point (eq: 0.5m scaled 50)	0 Low Limit Label	50
Forma Sectings Menu)	High limit delay in secs.	1 ± Low Imit delay in secs.	5 -
	High limit alarm call	Low limit alarm call	
· · · · · · · · · · · · · · · · · · ·	High alarm limit in use	Low alarm limit in use	
	High Alarm Limit Label High alarm limit set point	Low Alarm Limit Label	
001 002 0 0 0 0 0 0	High alarm limit delay in secs.	Display Window	0 -=
DOI DO2 Pump Setup	High alarm limit alarm call		
Puma Connected via USB on port: COM7	Regulator		
IMEI: 8888888888888888	Regulator function	(see section: "PUMA - Display Window")	
Puma name PumaPedro	Pump Settings Flow interface Additional Options		
Geographic position	Variable start level (eg: 0.5 m scale 50)		0
Modbus/Comil ID 5	Errors before pump suspension		
Station ID Settings Options	Interlocking enabled		
Dial-up connect timeout in secs. 0	Start level		60 🕂
APN mda.wasys.dk	Stop level		20 🛨
	Delay in secs.		
Assigned IP address (from ISP)			
SIM card PIN enabled No Yes			
SIM card PIN 0			
Username			
Password			
			ſ
Configuration loaded from Puma			

Device Action Menu

Actions such as read/write to device and/or disk, as well as TCP connection, and device status.

	SPIDER view Select SPIDER view to work with SPIDER configurations. Available only in offline mode (no device connected).
	GEKKO view Select GEKKO view to work with GEKKO configurations. Available only in offline mode (no device connected).
	PUMA view Select PUMA view to work with PUMA configurations. Available only in offline mode (no device connected).
2	Load Configuration from Disk Loads settings from a file on a disk drive
	Save Configuration to Disk Saves settings to a file on a disk drive
1	Load Standard Configuration Choose from typical default configurations (according SPIDER or GEKKO device)
*	Backup Operations Backup Operations for read all configurations from a device and save in a file or read all device configurations from a specific file and write to the device.
	Read Configuration from device (SPIDER or GEKKO) Reads settings from the connected device
ł	Write Configuration to device (SPIDER or GEKKO) Writes settings to the connected device
	Contact device (SPIDER or GEKKO) via TCP Establish TCP communication to a device (will disconnect any USB-connection to a device)
	Contact GEKKO device via AcowaCore Establish asynchronous communication with a GEKKO device via AcowaCore. When connecting via the AcowaCore server, it is possible to select your device by pressing 'Edit', writing configuration changes to it, similar as if you were physically connected to the device via USB connector. The next time the data logger connects to AcowaCore, it

	will first look for configuration changes and store them locally in the device, then it will exchange data with the AcowaCore server.
	Graphical User interface / Text based user interface Change between viewing settings and configurations in a graphical user interface and using a simple table overview of Modbus registers in the specific device
	View advanced settings Edit alarm, flow/overflow calculation settings and more
~	Go to Status Page View online device status details
<i>~</i>	Software Update feature New AcowaZoo version available for installation. Select "Run Update" to start the installation process.
₽╬═₽₽	Language Options Select application language.

Device Settings

SPIDER – Settings Menu



GEKKO – Settings Menu



PUMA – Settings Menu



Choose which part of the PUMA settings to view in the window on the right:

Pump Setup: Pump setup settings

Al1: Analog Input settings

DI1, DI2: Digital Input settings

DO1, DO2: Digital Output settings

Device Details

SPIDER – Details

Spider Connected via USB on port	COM8	
IMEI: 86832402560500	72	Information on the current SPIDER connection status and
Spider Name	Spider	type:
Company	Selskab	
Geographic position	Sted	USB via COM-port
Modbus/Comli ID	1	
Station ID	2	IMEI
GPRS-time out	1200	TCP IP-address/port
Dial-up connect timeout	1200	
APN	INTERNET	You will also find details on the SPIDER naming position
TCP-port	1025	and communication details such as ADN and CDDS
Time-sync (gsm net)	Off On	settings.
UTC or local time	UTC Loc	
Assigned IP address (from ISP)	,,	
SIM card PIN enabled	No Yes	
SIM card PIN	0	
Username		
Password		

GEKKO – Details

Logs - Settings Gekko Connected via USB on por IMEI: <i>8628310322361</i>	rtt COM8	Information on the current GEKKO connection status and type:
Gekko Name Company Geographic position Modbus/Comli ID Station ID GPRS timeout in secs. APN TCP-port Time-sync (gsm net) UTC or local time Assigned IP address (from ISP) SIM card PIN Username Password	Gekko(config-GB) 1 1 1 30 INTERNET 502 Off On UTC Con Loc No Yes 1	 USB via COM-port IMEI TCP IP-address/port Logs – Settings (Log Interval, Call Interval, Event Signal) You will also find details on the GEKKO naming, position and communication details such as APN, and GPRS settings.

PUMA – Details

Puma Connected via USB on por	t: COM11
IMEI: 8628310300130	36
Puma name	SPIDER SIMU
Company	Wasys
Geographic position	Industrivej 10
Modbus/Comli ID	1
Station ID	1
GPRS timeout in secs.	1200
Dial-up connect timeout in secs.	1200
APN	mda.wasys.dk
TCP-port	502
Time-sync (gsm net)	Off - On
UTC or local time	
Assigned IP address (from ISP)	172.16.1.14
SIM card PIN enabled	No Yes
SIM card PIN	0
Username	
Password	

Information on the current PUMA connection status and type:

- USB via COM-port
- IMEI
- TCP IP-address/port

You will also find details on the PUMA naming, position and communication details such as APN, and GPRS settings.

Device Display Window

This window shows the chosen settings according to the selected/pressed button for a device (SPIDER, GEKKO or PUMA), for instance:

- Status settings
- Input settings
- Output settings
- Advanced settings
- Registers table settings

SPIDER - Display window

Status and Management						
Supervision Status-bits						
Online Status						
				_	_	
	D1	D 2	D1 + D2			
Start Level (cm)	60	70	FI TFZ		170	1000 min 100 min 1000
Stop Level (cm)	20	20			779 Uli	ACO'NA
Current (10 = 1 Amp):						
Current - High Limit (10 - 1 amp)	200					
Power - Low Limit (10 = 1 Amp)	10					13 : C2 : 1C
Latest Measured Current(10 = 1 Amp)	0					
Latest cycle time (sec)	0	0				28 / 85 - 20 / 85
Starts Total	6673195	1102592	0551296			
Starts Today	1	0	0			Assigned IP-Address
Starts Yesterday	0	0	0			,,
Operating time Total (sec.)	8231296	9033928	3844021			GSM Signal Level
Operating time Today (sec.)	0	0	0			
Operating time Yesterday (sec.)	0		0			
Pump Capacity (l/s)	0		0			
Volume Total (m3)	109					SIM Status
Volume Todag (m3)			0			Pin OK
Volume yesterday (m3)	0	0)	Pumpe 1	Pumpe 2	
				Start Stop Sus	sp. Start Stop Susp.	Reset Modem
	[AI	VI1	VI2	VI3 VI4	VI5 VI6
Scaled Value	i i	479			0 0	
			Sensor	Elevation	Water Table	Sounding level
Groundwater lowering				0	0	
			· · · ·			

Pilter: Register Modbus/Cl 1 2001 Modbus/Cl 2 2002 Station ID 3 2003 Al - 0/20 m 4 2004 Al - 0/20 m 4 2004 Al - 0/20 m 5 2005 Al - 100% s 6 2006 Al - Averag 7 2007 Al - high lin 8 2008 Al - high lin 10 2010 Al - high lin 11 2012 Al - high lin 12 2012 Al - high lin 13 2013 Al - high lin 14 2014 Al - high lin 15 2015 Al - high lin 16 2014 Al - high lin 17 2015 Al - high lin 18 2014 Al - high lin 19 2015 Al - high lin 10 2015 Al - high lin 11 2014 Al - high lin	Register Name I Comli ID 0 1 1 nA or 4/20 mA 0 ale -3 scale -3 ging in secs. 0 imit nuse 0 imit set point -3 imit delay in secs. 0	Min 247 655 1 30000 300 3000 300 60 1 30000 300 600	Max M M 35 St 0- 00 M 00 M 44 00 H	Description Aodbus/Comli ID tation ID +20 mA or 4-20 mA /inimum scaling (eg: 5m scaled 500) /aximum scaling (eg: 5m scaled 500) /aximum scaling (eg: 5m scaled 500) /weraging in secs. tigh limit in use figh limit in use	Value 1 2 1 0 500 0 1
Register Register 1 2001 Modbus/C 2 2002 Station ID 3 2003 Al - 0/20 m 4 2004 Al - 0/26 m 5 2005 Al - 0/26 m 6 2006 Al - Norag 7 2007 Al - high lin 8 2008 Al - high lin 9 2007 Al - high lin 10 2010 Al - high lin 11 2011 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - low lin 16 2016 Al - low lin 17 2017 Al - low lin 18 2018 Al - low lin	Register Name I Comli ID 0 1 1 nA or 4/20 mA 0 ale -3 scale -3 ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	Min 247 247 655 1 30000 300 3000 3000 1 30000 300 600	Max M M 35 St 0- 00 M 00 M 4- H 00 H	Description Aodbus/Comli ID tation ID -20 mA or 4-20 mA /inimum scaling (eg: 5m scaled 500) Aaximum scaling (eg: 5m scaled 500) Averaging in secs. tigh limit in use tigh limit in use	Value 1 2 1 0 500 0 1
Normal Normal 2001 Modbus/C 2 2002 Station ID 3 2003 AI - 0/20 m 4 2004 AI - 0/20 m 5 2005 AI - 0/26 m 5 2005 AI - 10% s 6 2006 AI - Nigh In 7 2007 AI - high In 9 2009 AI - high In 10 2010 AI - high In 11 2011 AI - high In 12 2012 AI - high In 13 2013 AI - high In 14 2014 AI - high In 15 2015 AI - high In 16 2015 AI - how In 17 2016 AI - low In 18 2018 AI - low In	Comli ID 0 nA or 4/20 mA 0 ale -3 scale -3 ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	247 655 1 30000 300 3000 300 60 1 30000 300	Markan Ma	Aodbus/Comli ID tation ID 1-20 mA or 4-20 mA Ainimum scaling (eg: 5m scaled 500) Aaximum scaling (eg: 5m scaled 500) Averaging in secs. High limit in use High limit in use	1 2 1 0 500 0 1
2 2002 Station ID 3 2003 AI - 0/20 m 4 2004 AI - 0% s ca 5 2005 AI - 10% s ca 6 2006 AI - 10% s ca 7 2007 AI - 10% s ca 9 2006 AI - 10% s ca 9 2007 AI - 10% lin 10 2010 AI - high lin 11 2011 AI - high aI 12 2012 AI - high aI 13 2013 AI - high aI 14 2014 AI - high aI 15 2015 AI - hogh aI 16 2016 AI - low lin 17 2017 AI - low lin 18 2018 AI - low lin	In A or 4/20 mA 0 ale -3 scale -3 ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	655 1 30000 300 30000 300 60 1 30000 300 600	35 St 0- 00 M 00 M An Hi 00 Hi	tation ID -20 mA or 4-20 mA Ainimum scaling (eg: 5m scaled 500) Aaximum scaling (eg: 5m scaled 500) kveraging in secs. High limit in use High limit in use	2 1 0 500 0 1
3 2003 Al - 0/20 m 4 2004 Al - 0% sca 5 2005 Al - 10% sc 6 2006 Al - 10% sc 7 2007 Al - 10% sc 7 2007 Al - 10% sc 7 2007 Al - Nigh lin 8 2008 Al - Nigh lin 9 2009 Al - Nigh lin 10 2010 Al - Nigh al 11 2012 Al - Nigh al 12 2012 Al - Nigh al 13 2013 Al - Nigh al 14 2014 Al - Nigh al 15 2015 Al - Nigh al 16 2016 Al - Now lin 17 2017 Al - Now lin 18 2018 Al - Now lin	mA or 4/20 mA 0 ale -3 scale -3 ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	1 30000 300 30000 300 60 1 30000 300 600	0- 00 M 00 M An Hi 00 Hi	-20 mA or 4-20 mA dinimum scaling (eg: 5m scaled 500) daximum scaling (eg: 5m scaled 500) kveraging in secs. digh limit in use digh limit in use	1 0 500 0 1
4 2004 Al - 0% sca 5 2005 Al - 100% s 6 2006 Al - 100% s 7 2007 Al - high lin 8 2008 Al - high lin 9 2009 Al - high lin 10 2010 Al - high al 11 2011 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - low lin 16 2016 Al - low lin 17 2017 Al - low lin 18 2018 Al - low lin	ale -3 scale -3 ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	30000 300 30000 300 60 1 30000 300 600	00 M 00 M An Hi 00 Hi	Ainimum scaling (eg: 5m scaled 500) Aaximum scaling (eg: 5m scaled 500) Averaging in secs. High limit in use High limit set point (eq: 0.5m scaled 50)	0 500 0 1
5 2005 Al - 100% s 6 2006 Al - Averag 7 2007 Al - high lin 8 2008 Al - high lin 9 2009 Al - high lin 10 2010 Al - high lin 11 2010 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - low lin 16 2016 Al - low lin 17 2017 Al - low lin 18 2018 Al - low lin	scale -3 ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	30000 300 60 1 30000 300 600	00 M An Hi 00 Hi	Aaximum scaling (eg: 5m scaled 500) Averaging in secs. High limit in use High limit set point (eq: 0.5m scaled 50)	500 0 1
6 2006 Al - Averag 7 2007 Al - high lin 8 2008 Al - high lin 9 2009 Al - high lin 10 2010 Al - high lin 11 2010 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - low lin 16 2016 Al - low lin 17 2017 Al - low lin 18 2018 Al - low lin	ging in secs. 0 imit in use 0 imit set point -3 imit delay in secs. 0	60 1 30000 300 600	A1 Hi 00 Hi	iveraging in secs. High limit in use High limit set point (ea: 0.5m scaled 50)	0 1
7 2007 Al - high lin 8 2008 Al - high lin 9 2009 Al - high lin 10 2010 Al - high lin 11 2011 Al - high lin 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - high al 16 2016 Al - low lin 17 2017 Al - low lin 18 2018 Al - low lin	imit in use 0 imit set point -3 imit delay in secs. 0	1 30000 300 600	00 H	figh limit in use figh limit set point (ea: 0.5m scaled 50)	1
8 2008 Al - high lin 9 2009 Al - high lin 10 2010 Al - high lin 11 2011 Al - high lin 12 2012 Al - high lin 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - high al 16 2016 Al - low lin 17 2017 Al - low lin 18 2018 Al - low lin	imit set point -3 imit delay in secs. 0	30000 300 600	00 H	ligh limit set point (eg: 0.5m scaled 50)	
9 2009 Al - high lin 10 2010 Al - high lin 11 2011 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - high al 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	imit delay in secs. 0	600			90
10 2010 Al - high lif 11 2011 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2014 Al - high al 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim			00 Hi	ligh limit delay in secs.	5
11 2011 Al - high al 12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - how lim 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	imit alarm call 0	1	н	ligh limit alarm call	0
12 2012 Al - high al 13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - low lim 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	alarm limit in use 0	1	н	ligh alarm limit in use	0
13 2013 Al - high al 14 2014 Al - high al 15 2015 Al - low lim 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	alarm limit set point -3	30000 300	00 Hi	ligh alarm limit set point	0
14 2014 Al - high al 15 2015 Al - low lim 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	alarm limit delay in secs. 0	600	00 H	ligh alarm limit delay in secs.	0
15 2015 Al - low lim 16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	alarm limit alarm call 0	1	н	ligh alarm limit alarm call	0
16 2016 Al - low lim 17 2017 Al - low lim 18 2018 Al - low lim	mit in use 0	1	Lo	ow limit in use	1
17 2017 Al - low lim 18 2018 Al - low lim	mit set point -3	30000 300	00 Lo	ow limit set point	10
18 2018 AI - Iow Iim	mit delay in secs. 0	600	00 Lo	ow limit delay in secs.	5
	mit alarm call 0	1	Lo	ow limit alarm call	0
19 2019 Al - low ala	arm limit in use 0	1	Lo	ow alarm limit in use	0
20 2020 AI - Iow ala	arm limit set point -3	30000 300	00 Lo	ow alarm limit set point	0
21 2021 Al - Iow ala	arm limit delay in secs. 0	600	00 Lo	ow alarm limit delay in secs.	0
22 2022 AI - Iow ala		1	Lo	ow alarm limit alarm call	0
23 2023 Al - Label	arm limit alarm call 0		Si	ignal Label	0
24 2033 Al - High L	larm limit alarm call 0		н	ligh Limit Label	0

0/20 mA 4/20 mA 0-20 mA or 4-20 mA Minimum scaling (eg: 5m scaled 500) Maximum scaling (eg: 5m scaled 500) 0 ÷ 500 ÷ High limit in use Low limit in use 0 90÷ 5÷ 0 10 ÷ 5 ÷ High Limit Label Low Limit Label High limit set point (eg: 0.5m scaled 50) Low limit set point High limit delay in secs. High limit alarm call Low limit delay in secs. Low limit alarm call Low alarm limit in use High alarm limit in use High Alarm Limit Label High alarm limit set point High alarm limit delay in secs, High alarm limit alarm call Low Alarm Limit Label Low alarm limit set point Low alarm limit delay in secs, Low alarm limit alarm call 0 0 ÷ 0 ÷ 0 0÷ 0÷ Pump control -Regulator function Pump Settings Current Settings Flow interface Additional Options Variable start level (eg: 0.5 m scale 50) Errors before pump suspension Leak indicator timer (minutes) Interlocking enabled 1 Pump 2 Pumps No. of pumps Start level 1 Stop level 1 0 ÷ 0 ÷ 0 ÷ Delay in secs. 0÷ 0÷ Start level 2 Stop level 2 Delay in secs. 0 🗄 Direct Direct pumping or alternation Only one pump running

Input 1				
Signal Label				Termo P1
Input 1 - function			Pump 1 - Thermo	<u>_</u>
DI Settings Normally Open - Normally Closed Delay for ON-state in secs. Delay for OFF-state in secs. Alarm call			Normally Open	
VI Settings Minimum scaling (eg 20A scaled 200) Maximum scaling (eg 20A scaled 200) Averaging in secs.				0 ÷ 0 ÷
High limit in use High limit Label High limit setpoint (eg: Im scale 10) High limit delay in secs. High limit alarm call	0 0÷	High alarm limit in use High Alarm Limit Label High alarm limit setpoint (eg: 1m scale 10) High alarm limit delay in secs. High alarm limit alarm call		
Low limit in use Low limit Label Low limit setpoint (eg: Im scale 10) Low limit delay in secs. Low limit alarm cal		Low alarm limit in use Low Alarm Limit Label Low alarm limit setpoint (eg: 1m scale 10) Low alarm limit delay in secs. Low alarm limit alarm call		

Input 2				
Signal Label				DI 2
Input 2 - function			Standard DI	<u>_</u>
DI Settings Normally Open - Normally Closed Delay for ON-state in secs. Delay for OFF-state in secs. Alarm call			Normally Open	
VI Settings Minimum scaling (eg 20A scaled 200) Maximum scaling (eg 20A scaled 200) Averaging in secs.				
High limit in use High limit Label High limit setpoint (eg: 1m scaled 10) High limit delay in secs. High limit alarm call	0 0÷ 0÷	High alarm limit in use High Alarm Limit Label High alarm limit setpoint (eg: 1m scale 10) High alarm limit delay in secs. High alarm limit alarm call		
Low limit in use Low limit Label Low limit setpoint (eg: 1m scale 10) Low limit delay in secs. Low limit alarm call	0 0 : 0 :	Low alarm limit in use Low Alarm Limit Label Low alarm limit setpoint (eg: 1m scale 10) Low alarm limit delay in secs. Low alarm limit alarm call		

Input 3				
Signal Label			Current	t P1
Input 3 - function			Pump 1 - Power	•
DI Settings				
Normally Open - Normally Closed			Normally Open	~
Delay for ON-state in secs.			0	÷.
Delay for OFF-state in secs.			0	÷
Alarm call				
VI Settings				
Minimum scaling (eg 20A scaled 200)			0	÷
Maximum scaling (eg 20A scaled 200)			200 -	÷
Averaging in secs.			0	÷
High limit in use		High alarm limit in use		
High limit Label	Høj strøm P1	High Alarm Limit Label	0	5
High limit setpoint (eg: 1m scaled 10)	200 +	High alarm limit setpoint (eg: 1m scaled 10)	0 ÷	۶L.
High limit delay in secs.	5 +	High alarm limit delay in secs.	0 ÷	٩L
High limit alarm call		High alarm limit alarm call		5).
Low limit in use		Low alarm limit in use		
Low limit Label	Lav strøm P1	Low Alarm Limit Label	0	5
Low limit setpoint (eq: 1m scaled 10)	10 +	Low alarm limit setpoint (eg: 1m scaled 10)	0 ÷	ž .
Low limit delay in secs.		Low alarm limit delay in secs.	0 ÷	í.
Low limit alarm call		Low alarm limit alarm call		5

Input 4				
Signal Label				DI 4
Input 4 - function			Standard DI	<u>_</u>
DI Settings				
Normally Open - Normally Closed			Normally Open	
Delay for ON-state in secs.				<u>•</u>
Delay for OFF-state in secs.				<u></u>
Alarm call				
VI Settings				
Minimum scaling (eg 20A scaled 200)				
Maximum scaling (eg 20A scaled 200)				
Averaging in secs.				0 🛨
High limit in use		High alarm limit in use		
High limit Label	63560	High Alarm Limit Label		
High limit setpoint (eg: 1m scaled 10)	0 ÷	High alarm limit setpoint (eg: 1m scale 10)		0 ÷
High limit delay in secs.	0 ÷	High alarm limit delay in secs.		0 ÷
High limit alarm call		High alarm limit alarm call		
Low limit in use		Low alarm limit in use		
		Low dam million ac		
Low limit Label		Low Alarm Limit Label		
Low limit setpoint (eg: 1m scale 10)	10 -	Low alarm limit setpoint (eg: 1m scale 10)		0 ÷
Low limit delay in secs.	0 ÷	Low alarm limit delay in secs.		0 ÷
Low limit alarm call		Low alarm limit alarm call		

Input 5		
Signal Label		DI 5
Input 5 - function	Pump 1 - Running	<u>•</u>
DI Settings	_	
Normally Open - Normally Closed	Normally Open	-
Delay for ON-state in secs.		5 🛨
Delay for OFF-state in secs.		0 🛨
Alarm call		
VI Settings		
Minimum scaling (eg 20A scaled 200)		0÷
Maximum scaling (eg 20A scaled 200)		200 🛨
Averaging in secs.		0 ÷
High limit in use High alarm limit in use		
High limit Label 0 High Alarm Limit Label		0
High limit setpoint (eg: 1m scaled 10)		0 ÷
High limit delay in secs.		0 ÷
High limit alarm call High alarm limit alarm call		
Low limit in use 🔽 Low alarm limit in use		
Low limit Label		0
Low limit setpoint (eq: 1m scale 10)		0÷
Low limit delay in secs.		0 ÷
Low limit alarm call		

Input 6		
Signal Label		
Input 6 - function	High level switch	-
DI Settings		
Normally Open - Normally Closed	Normally Open	-
Delay for ON-state in secs.		5 🛨
Delay for OFF-state in secs.		0 🛨
Alarm call		
High Level Switch Settings		
Time before starting second pump (sec.)		30 🛨
Running time when running blind (sec.)		60 🛨

Advanced Settings							
Reports and Alarms Stormflow Registration Reverse Comm							
Daily SMS Status							
Daily Status SMS in use Receiver phone number time of day (in hours)			0 				
Time of day for daily report							
Alarms							
Alarm 1		Alarm 3					
Alarm 1 call Type Alarm 1 phonenumber Alarm 1 Delay	Not Used	Alarm3 call Type Alarm3 phonenumber Alarm3 Delay	Not Used				
Alarm 2		Alarm 4					
Alarm2 call Type Alarm2 phonenumber Alarm2 Delay	Not Used	Alarm4 call Type Alarm4 phonenumber Alarm4 Delay	Not Used				

Output Control	
Output 1 - Pump 1 control Constant or Timed	Constant Timed
ON-timer in secs.	0
Delay for Orvistate in sets.	<u> </u>
Output 2 - Pump 2 control	
Constant or Timed	Constant
ON-timer in secs.	0 ÷
Delay for ON-state in secs.	0 ÷
Output 3	
Function	Not Used 💌
Constant or Timed	Constant
ON-timer in secs.	0 ÷
Delay for ON-state in secs.	0 ÷
Output 4	
Function	Not Used 💌
Constant or Timed	Constant Timed
ON-timer in secs.	0 ÷
Delay for ON-state in secs.	0 🛨

GEKKO - Display window



Edit Registers Online registers Input registers

	cgoters of	inne registers input registers					
ier:							
	Register	Register Name	Min	Max	Description	Value	
	2001	Modbus/Comli ID	0	247	Modbus/Comli ID	1	
	2002	Station ID	1	65535	Station ID	1	
	2003	Al - 0/20 mA or 4/20 mA	0	1	0-20 mA or 4-20 mA	1	
	2004	Al - 0% scale	-30000	30000	Minimum scaling (eg: 5m scaled 500)	1	
	2005	Al - 100% scale	-30000	30000	Maximum scaling (eg: 5m scaled 500)	1	
	2006	Al - Start-up time in seconds	0	60	Start-up time in seconds	1	
	2007	Al - high limit in use	0	1	High limit in use	1	
	2008	Al - high limit set point	-30000	30000	High limit set point (eg: 0.5m scaled 50)	1	
	2009	Al - high limit delay in secs.	0	60000	High limit delay in secs.	1	
	2010	Al - high limit alarm call	0	1	High limit alarm call	1	
	2011	Al - high alarm limit in use	0	1	High alarm limit in use	1	
	2012	Al - high alarm limit set point	-30000	30000	High alarm limit set point	1	
	2013	Al - high alarm limit delay in secs.	0	60000	High alarm limit delay in secs.	1	
Ļ	2014	Al - high alarm limit alarm call	0	1	High alarm limit alarm call	1	
,	2015	Al - low limit in use	0	1	Low limit in use	1	
5	2016	Al - low limit set point	-30000	30000	Low limit set point	1	
7	2017	Al - low limit delay in secs.	0	60000	Low limit delay in secs.	1	
8	2018	Al - low limit alarm call	0	1	Low limit alarm call	1	
)	2019	Al - low alarm limit in use	0	1	Low alarm limit in use	1	
)	2020	Al - low alarm limit set point	-30000	30000	Low alarm limit set point	1	
	2021	Al - low alarm limit delay in secs.	0	60000	Low alarm limit delay in secs.	1	
2	2022	Al - low alarm limit alarm call	0	1	Low alarm limit alarm call	1	
	2023	Al - Label			Signal Label	1	
	2033	Al - High Limit Label			High Limit Label	1	

AI 1		
Signal Label		1
0-20 mA or 4-20 mA Minimum scaling (eg: 5m scaled 500) Maximum scaling (eg: 5m scaled 500) Start-up time in seconds		0/20 mA = 4/20 mA 1÷ 1÷ 1÷
High limit in use	Low limit in use	
High Limit Label High limit set point (eg: 0.5m scaled 50) High limit delay in secs. High limit alarm call	Low Limit Label Low limit set point Low limit delay in secs. Low limit alarm call	
High alarm limit in use	Low alarm limit in use	
High Alarm Limit Label High alarm limit set point High alarm limit delay in secs. High alarm limit alarm call	Low Alarm Limit Label Low alarm limit set point Low alarm limit delay in secs. Low alarm limit alarm call	

AI 2		
Signal Label		
0-20 mA or 4-20 mA Minimum scaling (eg 20A scaled 200) Maximum scaling (eg 20A scaled 200) Start-up time in seconds		0/20 mA - 4/20 mA 0 ± 0 ± 0 ±
High limit in use	Low limit in use	
High limit Label High limit setpoint (eg: 1m scaled 10) High limit delay in secs. High limit alarm call	Low limit Label Low limit setpoint (eg: 1m scale 10) Low limit delay in secs. Low limit alarm call	0 ÷
High alarm limit in use	Low alarm limit in use	\square
High Alarm Limit Label High alarm limit setpoint (eg: 1m scale 10) High alarm limit delay in secs. High alarm limit alarm call	Low Alarm Limit Label Low alarm limit setpoint (eg: 1m scale 10) Low alarm limit delay in secs. Low alarm limit alarm call	

Input 1			
Signal Label			1
Input 1 - function			Standard VI (VI = volt. In. range 0-10V)
DI Settings Normally Open - Normally Closed Start-up time in seconds Alarm call			Normally Closed •
VI Settings Minimum scaling (eg 20A scaled 200) Maximum scaling (eg 20A scaled 200) Start-up time in seconds Hinh limit in use		Hinh alarm limit in use	
High limit Label High limit setpoint (eg: 1m scale 10) High limit delay in secs. High limit alarm call		High Alarm Limit Label High alarm limit setpoint (eg: 1m scale 10) High alarm limit delay in secs. High alarm limit alarm call	
Low limit in use		Low alarm limit in use	
Low limit Label Low limit setpoint (eg: Im scale 10) Low limit delay in secs. Low limit alarm call	1 1÷ 1÷	Low Alarm Limit Label Low alarm limit setpoint (eg: Im scale 10) Low alarm limit delay in secs. Low alarm limit alarm call	

Input 2			
Signal Label			1
Input 2 - function			Standard VI (VI = volt. In. range 0-10V)
DI Settings	_		
Normally Open - Normally Closed			Normally Closed
Start-up time in seconds			1 -
Alarm call			
VI Settings			
Minimum scaling (eg 20A scaled 200)			1 🕂
Maximum scaling (eg 20A scaled 200)			1 -
Start-up time in seconds			1÷
High limit in use		High alarm limit in use	
High limit Label	1	High Alarm Limit Label	1
High limit setpoint (eg: 1m scaled 10)	1 =	High alarm limit setpoint (eg: 1m scale 10)	1 🛨
High limit delay in secs.	1 🛨	High alarm limit delay in secs.	1
High limit alarm call		High alarm limit alarm call	
Low limit in use		Low alarm limit in use	
Low limit Label	1	Low Alarm Limit Label	1
Low limit setpoint (eg: 1m scale 10)	1+	Low alarm limit setpoint (eg: 1m scale 10)	1÷
Low limit delay in secs.	1+	Low alarm limit delay in secs.	1+
Low limit alarm call		Low alarm limit alarm call	

Input 3		
Signal Label		1
Input 3 - function	Standard DI	<u>_</u>
DI Settings		
Normally Open - Normally Closed	Normally Closed	_
Start-up time in seconds		1 =
Alarm call		

Input 4		
Signal Label		Pulse input
Input 4 - function	Standard DI	.
DI Settings		
Normally Open - Normally Closed Start-tup time in seconds Alam call Pulse scaling	Normally Open	

Advanced Settings			
Reports and Alarms Reverse Comm Modem Setup			
Daily SMS Status			
Daily Status SMS in use			
Receiver phone number			
time of day (in hours)			23 🛨
Time of day for daily report			23 🛨
Alarms			
Alarm 1		Alarm 3	
Alarm1 call Type	Not Used 💌	Alarm3 call Type	Not Used 🗾
Alarm1 phonenumber		Alarm3 phonenumber	
Alarm1 Delay	60 🛨	Alarm3 Delay	60 🛨
Alarm 2		Alarm 4	
Alarm2 call Type	Not Used	Alarm4 call Type	Not Used
Alarm2 phonenumber		Alarm4 phonenumber	
Alarm2 Delay	60 🛨	Alarm4 Delay	60 🛨

I	Logs - Settings		
	Log interval in minutes Call interval in minutes		5 ÷
	Event Signal	Not Used	-
	Event Log Interval in minutes Event Cal Interval in minutes		0 ÷ 120 ÷

PUMA - Display window



Edit Registers Online registers Input registers

Hiter						
	Register	Register Name	Min	Max	Description	Value ^
1	2001	Modbus/Comli ID	0	247	Modbus/Comli ID	1
2	2002	Station ID	1	65535	Station ID	1
3	2003	Al - 0/20 mA or 4/20 mA	0	1	0-20 mA or 4-20 mA	1
4	2004	Al - 0% scale	-30000	30000	Minimum scaling (eg: 5m scaled 500)	0
5	2005	Al - 100% scale	-30000	30000	Maximum scaling (eg: 5m scaled 500)	315
6	2006	Al - Averaging in secs.	0	60	Averaging in secs.	0
7	2007	Al - high limit in use	0	1	High limit in use	1
8	2008	Al - high limit set point	-30000	30000	High limit set point (eg: 0.5m scaled 50)	85
9	2009	Al - high limit delay in secs.	0	60000	High limit delay in secs.	4
10	2010	Al - high limit alarm call	0	1	High limit alarm call	0
11	2011	Al - high alarm limit in use	0	1	High alarm limit in use	0
12	2012	Al - high alarm limit set point	-30000	30000	High alarm limit set point	0
13	2013	Al - high alarm limit delay in secs.	0	60000	High alarm limit delay in secs.	0
14	2014	Al - high alarm limit alarm call	0	1	High alarm limit alarm call	0
15	2015	Al - low limit in use	0	1	Low limit in use	1
16	2016	AI - low limit set point	-30000	30000	Low limit set point	10
17	2017	AI - low limit delay in secs.	0	60000	Low limit delay in secs.	10
18	2018	Al - low limit alarm call	0	1	Low limit alarm call	0
19	2019	Al - low alarm limit in use	0	1	Low alarm limit in use	0
20	2020	Al - low alarm limit set point	-30000	30000	Low alarm limit set point	0
21	2021	Al - low alarm limit delay in secs.	0	60000	Low alarm limit delay in secs.	0
22	2022	Al - Iow alarm limit alarm call	0	1	Low alarm limit alarm call	0
23	2023	Al - Label			Signal Label	12345678901234567890
24	2033	Al - High Limit Label			High Limit Label	high label
25	2043	Al - Low Limit Label			Low Limit Label	low label

Pump Setup	
Pump control	
Deactivate protected startup settings	
Number of phases (0= 1 phase, 1= 3 phases)	1 phase 💌
Pump Current (10 = 1 Amp)	40 📩
Primary Sensor	Level transmitter
Float Switch	Not connected
Klixon connected	
Percentage of rated Pump Current	25 🛨
Trip Class	Trip Class 20
Running time when running blind (sec.)	5 🕂
Puma HMI	
HMI Language	English 🗾

Output Control	
Output 1	
Function	Not Used
Constant or Timed	Constant
ON-timer in secs.	2
Delay for ON-state in secs.	10 🛨

Output Control		
Output 2		
Function	Not Used 💌	·
Constant or Timed	Constant - Timed	
ON-timer in secs.	5 ÷	Э
Delay for ON-state in secs.	0	E

Input 1		
Signal Label	F	Port Lukket
Input 1 - function	Unassigned setting (7)	_
DI Settings		
Normally Open - Normally Closed Delay for ON-state in secs. Delay for OFF-state in secs. Alarm call	Normally Open	

Input 2	
Signal Label	Venstre Port Åben
Input 2 - function	Unassigned setting (8)
DI Settings	
Normally Open - Normally Closed	Normally Open
Delay for ON-state in secs.	0 🛨
Delay for OFF-state in secs.	0 🛨
Alarm call	

AT 1						
Signal Label					1234567890123456	7890
0-20 mA or 4-20 mA Minimum scaling (eg: 5m scaled 500) Maximum scaling (eg: 5m scaled 500)					0/20 mA 4/20	mA 0 ÷
High limit in use			Low limit in use			
High Limit Label High limit set point (eg: 0.5m scaled 50) High limit delay in secs. High limit alarm call		high label 85 ÷ 4 ÷	Low Limit Label Low limit set point Low limit delay in secs. Low limit alarm call		low lat 10 10	el 다다
High alarm limit in use High Alarm Limit Label High alarm limit set point High alarm limit delay in secs. High alarm limit alarm call			Low alarm limit in use Low Alarm Limit Label Low alarm limit set point Low alarm limit delay in secs. Low alarm limit alarm call			
Regulator						
Regulator function						
Pump Settings Flow interface Additional Options Variable start level (eg: 0.5 m scale 50) Errors before pump suspension Leak indicator timer (minutes) Interloding enabled Start level 1 Stop level 1 Delay in secs.						
Advanced Settings						
Reports and Alarms Stormflow Registration Reverse Comm M	lodem Setup					
Daily SMS Status Daily Status SMS in use Receiver phone number Time of day (in hours) Time of day for daily report Alarms						
Alarm 1			Alarm 3			5
Alarm 1 Alarm 1 call Type Alarm 1 phonenumber Alarm 1 Delay	Not Used	▼ 0 60 ÷	Alarm 3 Alarm 3 call Type Alarm 3 phonenumber Alarm 3 Delay	Not Used	- (60 :	
Alarm 2			Alarm 4			
Alarm2 call Type Alarm2 phonenumber Alarm2 Delay	Not Used		Alarm4 call Type Alarm4 phonenumber Alarm4 Delay	Not Used		