# Communication Unit CU801\_WEB\_server Based on version 309 ex fd and up.



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# Get started:

Normally there is now need for changing any settings to get the system up running:

Check list:

1.

If the system is not deliver with power (battery or adapter) Supply the system with DC power 10- 30 voltage, total continuous power consumption is 3 watt.

2.

If network SIM card is not installed by manufacturer. You will need to order a SIM card from a local supplier and insert this card in the slot for SIM card. See "Unit 3 GPRS/LTE" and APN and Appendix for connecting via local network cable.

When sim card is connected system should work without any further settings. Default sends data to <u>ftp://station.saivas.net</u> user: (station nunber/name )pass: cu801 and internal FTP. 192.168.1.1, user: root, pass: cu801

3.

Data sending to exsternal FTP is by default set to a specific folder at SAIV AS FTP server. Address for this location is described on the product label. For changing this: See "FTP setup"

4.

Data sending to internal FTP is by default enabled and there is a 32Gbyte USB memory pen for storing data. Folder in root has to be /ctd

"Version 906ex fd" is only sending data to ctd folder, RDCP and sonar have not internal FTP ability yet.

When check list is completed.

Turn power on and use the Mag-Key to swipe the start and confirm label on the instrument.

## About CU801:

The CU801\_WEB server is a unit for displaying data on a web page, based on measurement from SD204/208 and Td30xx station delivered from SAIV AS. Also able to add RDCP, OX sensor from AADI.

For access form World Wide Web (WWW) the CU801\_WEB server has to work together with a network router. The router can be a GPRS/LTE router for places without cable or ADSL router with cable.

The GSM/GPRS system has worldwide coverage with limitations. Normally areas without coverage are fare from coast line(about 5-10 km), high mountains and other none populated areas. The coverage area can be checked on numbers of web pages.

The CU801\_WEB need constant power. About 120mA. Replaceable built-in back-up battery will support the real-time clock if external power is interrupted or not connected. The programmed set-up will not be lost, even if the back-up battery is removed/discharged, only the real-time clock have to be set after change of back-up battery.

Each CU801\_WEB can be programmed from a web configuration page. Configurations options are station name, time, date, and also start/stop initiate on connected instrument.

The CU801\_WEB server uses TCP/IP(Transport Control Protocol / Internet Protocol ) number 192.168.1.2 gateway 192.168.1.1 network mask 255.255.255.0. It can be accessed from any browser on a LAN network without router; (only a hub/switch or crossover cable, the IP of your computer need to be in the same number series for example: 192.168.1.3) Address line in browser is in this case 192.168.1.2/data.htm.

# Specifications:

Dimensions:	CU 801_WEB Length 111mm. Wide 72 mm Heigth 33 mm	
Weight:	130g	
Power:	10-24 VDC 1,5 – 2 Watt	
Data I/O:	6 - RS232 ASCII code. Baud rate: 9600-115200 7data, 1 , even parity 8data, 1 , none parity	
	100 BASE-T Ethernet.	
CPU:	16 bit, 80 Mhz, boot time 1 sek.	



Model: µPAC-7186EX-FD

The system has tree units that have to work together. SD204/208/TD301 <-> CU801\_WEB <-> GPRS/LTE router.

#### Unit 1: SD204/SD208/TD301

Before connecting the instrument to the CU801\_WEB server. The interval and the baud rate have to be set correctly.

Use Interval greater or equal to 20 second, less will not giv the controller time to send FTP and accessing the controller will be often interupted and it will behave slow.

48 lines is maximum before it starts to overwrite date if FTP is enable it will send data before start overwriting. The web page use FIFO "First in First out". A 1-hour interval will then give 2 days of data before it loses data on the web page. Number of lines can be changed from 3-48 lines.

RS232 communication: Baud rate can be changed, default is 9600, 7 data, 1 stop bit, Even parity.

Use operation manual for instrument for help and use the SD200w minisoft program for configuration, Latest version of SD200w is accesable from http://station.saivas.net

#### Unit 2: CU801\_webserver

There is no critical adjustment on the CU801\_WEB server. It will work by default settings.

#### Connect to the Cu801 internal index.htm webpage

Wifi or Crossover cable or hub (see Appendix)

Wifi: Find the station number marked on controller e.x (station number = 17000068) in the wifi list, log in by password cu801(station number) e.x cu80117000068. Type 192.168.1.2 in the address URL filed of any browser.

Main page is beeing displayed:



*Config: name change page* 192.168.1.2/config.htm Router: "IP"/config.htm or "domain"/config.htm



Enter Station Name in the text box and use the send button for update the CU801\_web station name.

When successful the new name will be displayed in red coloured text. Use hyperlink "DATA" for accessing the data.htm page.

Change number of lines (default 10) Change number of lines to for example 09: (Minimum = 03.) http://192.168.1.2/cgi-bin/CGI\_GET?lines=09 The server confirm successful registration when it returns main page. If FTP is enable data will be send every nine line.

Set time:

There is no page for this setting, use the browsers address line to set time. http://IP/cgi-bin/CGI\_GET?Timeset=HH-MM-SS The IP is the IP number for the specific CU801\_WEB server For direct connection (crossover cable/hub) and set time 23/59/59: http://192.168.1.2/cgi-bin/CGI\_GET?Timeset=23-59-59

Set Date:

There is no page for this setting, use the browsers address line to set date. http://IP/cgi-bin/CGI\_GET?Dateset=YYYY-MM-DD The IP is the IP number for the specific CU801\_WEB server For direct connection (crossover cable/hub) and set date 2007/12/30: http://192.168.1.2/cgi-bin/CGI\_GET?Dateset=2007-12-30 For easy access type 192.168.1.2/info and then click TIME or Date button for change time in address line:

192.168.1.2/info ×	
← → C	<b>€</b> ☆ <b>=</b>
Time/Date, Display & Read	
See manual for updating Time/Date Date(Y/M/D) = ~Dateset=databuff~ Time(H:M:S) = ~Timeset=timebuff~	
Click button to get current Time or Date	
Return to main page click Main	

Initiate the Instrument: If instrument need to be started or stopped. There is no page for this, use the browsers address line for initiate. http://IP/cgi-bin/CGI\_GET?Start =I For direct connection (crossover cable/hub/switch) http://192.168.1.2/cgi-bin/CGI\_GET?Start =I There is no verification for start and stop of instrument. User has to see if new data is updated or not in the data.htm web page. If there is no change try again. *Data.htm page:* 

🕒 0e000046.saivas.net/data.l 🗙
← → C 🗋 0e000046.saivas.net/data.ht 🖬 🏠 🚍
#0E000046
#Serie No 1213
#48 Lines, 12.3 V
#CTD
#Date Time Cond - Temp - Press_
2015/10/06 08:33:49 00.002 +19.388 0000.21
2015/10/06 08:33:39 00.003 +19.387 0000.21
2015/10/06 08:33:29 00.003 +19.383 0000.21
2015/10/06 08:33:19 00.003 +19.383 0000.21
2015/10/06 08:33:09 00.003 +19.384 0000.20
2015/10/06 08:32:59 00.004 +19.383 0000.20
2015/10/06 08:32:49 00.002 +19.380 0000.21
2015/10/06 08:32:39 00.006 +19.378 0000.21
2015/10/06 08:32:29 00.003 +19.375 0000.21
2015/10/06 08:32:19 00.002 +19.375 0000.21
2015/10/06 08:32:09 00.006 +19.374 0000.20
2015/10/06 08:31:59 00.002 +19.374 0000.21

Line 1 # = Station name.

Line2 # = Serie number of the instrument attached

Line 3 # = Lines to be stored before overwrite, (Instrument will store data until it is full, see manual for data storage) The system voltage is displayed, heady with use of battery power/solar cells

Line 4 # = Tells about the setup of the CTD.

Line 5 # = Header for data lines.

Direct communication with the Instrument:

It is possible to communicate directly with the Instrument by using the SD200w program from SAIV A/S.

#### To open connection:

If not familiar with the Minisoft sd200w, see manual for this.(download:

http://station.saivas.net/manuals/SD208%20manual\_total.pdf) The newest version of minisoft can be downloaded her (station.saivas.net)

Under the "setup"-"comport" connection is a TCP/IP option, click this option and type the web address for CU801 and end it with ":10000" (for example: 192.168.1.2:1000)

Important: Look at the bottom right corner of the minisoft sd200w, a green led will be shown in front of the IP address. See also screenshot of minisd200w

press any key and a menu will be displayed. Use this to open communication with instrument. All function that is used inn sd200w will now be available.

When transparent communication is active the web update stops. When <ctrl+T> is pressed the web update is active again. Remember to start the instrument before closing connection; else the web measurement will not be updated.

#### Hidden menu:

After main menu is displayed. Press <P> and than <L>. A menu will be displayed. Type <P> for programming menu. It possible to activate password on the html page form here.

Username default : Admin Password default : 12345 (max 5 letter) To change password: use config.htm page.

Screen shot Minisd200w:



#### Direct data collect with Minisoft sd200w:

Edit station	etwork teon in Winisoft program.	Auu	X	
Name	0e000046	✓	OK	
Station type	801	×	Cancel	
Folder name	C:\stations\			
Filename prefix	0e000046			
Station URL	192.168.1.2			
Use FTP	Sync max days All			
Username				
Password				
Read interval	min Station type			
	Auto interval     C Reference     C Slave			
	· · · · · · · · · · · · · · · · · · ·			

Click on the network icon in Minisoft program. Add "new" station

If password is activated by user ( see hidden menu) than username and password as to be added. Remember to activate the station. It possible to use time based collection or auto. Data will be stored as one TXT file in selected folder.

MiniSoft SD200W	
Eile <u>V</u> iew <u>D</u> isplay <u>U</u> til <u>H</u> elp	
Name Type Active Last read Result Next read	······
0e000046 801 Yes 2015.10.06 09:02 OK 2015.10.06 09:22	Add
	TRemove
	🕅 Edit
	🖌 Read all
	Alerts
• 0e000046	

#### Graph view and Alert (e-mail/sms)

When having extra sensors as FTU (turbidity) and OX (Oxygen) on the instrument it possible to view a graph of present Turbidity over time(right click with mouse on the station and activate graph) Alarm will be sent by e-mail or SMS(setup has to be done) if values goes higher or lower than set point. To access Alert setting, click on button for alert after clicking the network icon on main page).

Alert settings	×
Alert Relative Absolute SMS e-mail	🗸 ок
Min T 🗖 0,00 FTU Max T 🗖 0,00 FTU	X Cancel
Min F 🔲 0,00 μg/l Max F 🗌 0,00 μg/l	
Min 02 🗖 0,00 🕺 Max 02 🗖 0,00 炎	

## External and Internal FTP setup: CUF

FTP = File Transport Layer on the TCP/IP network Address 192.168.1.2/cuf will redirect to http://192.168.1.2/cgi-bin/CGI\_GET?APFTP=

				192.168.1.2	2	Ċ	2			₫		P
DownloadMinisoft sd20	Ow Yahoo	panofish - YouTube	YouTube	Wikipedia	Nyheter 🗸	Populære 🛩	Apple	iCloud	Facebook	Twitter	>>	+
APB5 FTP settings for bu	oy name:	17000046										
FTP Addr-IP :	85.200.249	.146										
FTP Username :	17000046											
FTP Password :	*****											
FTP Port :	21											
FTP Folder CTD :	/17000046/	/ctd/										
FTP Folder RDCP :	/17000046/	/rdcp/										
FTP Folder Sonar :	/17000046/	/sonar/										
FTP Off/On:	Off ᅌ											
USB Stick Yes/No:	Yes ᅌ											
STORE SETTINGS Setting A test file "FTPtest.txt" w If Selecting USB Stick (y A mount scipt has to be a Password to root(router)	s will be st ill also be es) there n dded to the has to be th	tored immediately sent to CTD folder nust be present a U e start up of the rou he same as the rem	and you v r SB Stick iter ote FTP s	will be redi in the netw erver. Fold	rected to th vork router. er "usb" ne	is page to ve	erify th r = ctd.	at settin	ig have bee	en stored		

DATA: Profiling data.

Date Time: Date time options

Additional settings: Station name and password setting

FTP server has to be address with direct IP number not a DNS Name.

FTP folder is only needed for the sensor that is enabled.

Default settings will send data to "Station.saivas.net" at SAIV A/S. The server is a free of charge.

Data will be sent to FTP server when number of lines reaches, with one overlap.

When Store Settings is clicked the CU801 will send a test file to the FTP folder CTD.

Note: This will not work if the network cable is still hooked direct via a cross over cable to a PC/MAC. For testing this, a network switch has to be attached between to the router, CU801 and PC/MAC

#### Internal FTP:

This is a FTP server that is included in the LR77 LTE router. Default is a USB pen of 32Gbyte included in version 906 and above. And all settings is done.

If the USB pen need to be replaced is only need a "ctd" folder in the root, insert it and power up.

To access the internal USB, Use a client FTP program. e.x filezilla

Server = 192.168.1.1, user = root, password = cu801 ( password has to correspond with external password in accessable in the /cuf page.)

Default is root directory, here chould a USB folder be accessable (PS! if upgrade is made, this folder has to be created again)

If a USB memory pen is inserted and a script "mount /dev/sda1 /root/usb"

is added to the start upscript of the router.

For manual, look up on google : LR77 v2 manual

#### FTP File Format:

The files a sent as plain TXT files. Name on the files are build as follow: YYMMDDNN.txt

YY = Year

MM = Month

DD = Day

NN = file number that day, file number 0 to max 255 per day. Displayed as HEX, 00 to FF The file system on your computer will also store the file date and time, this can also be used to arrange the incoming files.

## Adding more sensors:CUS

For enable and disable sensor:

After connecting a new sensor to following	Comport:	
Inst:	Comport:	Baud
TD/CTD (SAIV)	= Com 3	9600, 7, 1, 1
Watchdog	= Com 4	9600, 8 ,0 ,1
RDCP (Aandreaa)	= Com 5	9600, 8, 0, 1
Optical OX (Aanderaa)	= Com 6	9600, 8, 0, 1
Optical OX / SONAR	= Com 7	9600, 8, 0, 1/57600, 8, 0, 1
GPS/ Wheater Station(AIRMAR)	= Com 8	4800, 8, 0, 1

Open page 192.168.1.2/cus will redirect to http://192.168.1.2/cgi-bin/CGI\_GET?cuset=

#### Intervall: int

If CTD/TD is not present and only a OX or Doppler is connect the interval has to be done from the CU801. To set this interval:

Open page 192.168.1.2/int

Interval Setting ×	
← → C [] 192.168.1.2/int	<b>馬</b> 公 〓
Set poll interval(Not needed when SD204/TD30X is	enabled)
Interval: 10 min 🔻	
Run to execute selected interval	
View to See current setting = ~viewsettings=Intbuff~.	
Return to Main	

## Change IP address on Cu801:

If CU801 is to be working on a different IP network it is possible to change IP number on the server. Be aware that change on this settings will give the router a different address and it will not work as default according to this manual. Remember to make a note when changing this address for later.

Default address for changing is: http://192.168.1.2/cgi\_web

	A REAL PROPERTY AND A REAL			
Configuration Page ×				
← → C 🗋 192.168.1	.2/cgi_web			5 公 〓
Ethe	rnet Settings			
	Items	Current Value	New Value	
	IP	192.168.1.2	192.168.1.2	
	Gateway	192.168.1.1	192.168.1.1	
	Mask	255.255.255.0	255.255.255.0	
	DHCP	⊖ Enable ● Disable		
	Web Server Lib Ver.	Version 113 (Dec 16 2008)		
	MiniOS7 Ver.	Version 2.02.23		
			MODIFY_SETTING	
	Please access t	he new IP Address after modifing the configuration		

#### Unit 3: GPRS/LTE router.

Any type of router can be used. The default IP is 192.168.1.2 Gateway is 192.168.1.1 and net mask is 255.255.255.0 Default TCP port is 80.

The CU801\_WEB server uses the 100 BASE-T Ethernet with a RJ-45 connector to send TCP traffic.

By use of a crossover Ethernet cable between the CU801\_WEB and the router there is no need of a hub/switch.

In our total product delivery we have chosen a GPRS/LTE router based on its size, stability and connection speed and has internal FTP server.

The chosen GPRS/LTE router is not covered in this manual, but the basic settings and name of configurations tools are the same for most routers. Use the router manual for additional information. Look up LR77 v2 manuel via google to see complete manual.

Insert mobile SIM card in SIM1 and access the router configuration web page.

By wifi connect to the GPRS/LTE router via address: 192.168.1.1 or Connect the GPRS/LTE router to a hub/switch make sure that the IP number on your computer is 192.168.1.3/255. Type the default IP 192.168.1.1 in the browser address line:

		1	92.168.1.1			0			<u> </u>
DownloadMinisoft sd200w	Yahoo panofish - YouTube	YouTube Wikipedia	Nyheter ~	Populære ~	Apple iClo	ud Facebook	Twitter	Google Maps	
E router I P	77 12								
E TOULET EN									
atus			1st Mo	bile WAN C	onfiguratio	n			
eneral	Create connection t	n mobile network							
obile WAN	Create connection	1st SIM card		2nd SIM care					
1Fi	ADN *	von netcom no		telenor inter	net				
IFI Scan		- printeteornino							
etwork	Usemame *								
HCP	Password *								
sec	Authentication	PAP or CHAP	0	PAP or CHAP		0			
vstem Log	IP Address *								
	Dial Number *								
onfiguration	Operator *								
AN	Natural Tax	and an address of the sector of the		Contractor		0			
RRP	Network Type	automatic selection	<b>۱</b>	automatic sel	ection	2			
obile WAN	PIN *								
PPOE	MRU	1500		1500		bytes			
1H 1 AN	MTU	1500		1500		bytes			
ackup Routes									
tatic Routes	DNS Settings	get from operator	0	get from oper	ator	0			
rewall	DNS IP Address								
AT									
penVPN	(The feature of check	connection to mobile	network k	s necessary fi	or uninterrup	ted operation	)		
DE	Check Connection	enabled	0	disabled		0			
TP	Ping IP Address	85.200.249.146							
тр	Ping Interval	300				sec			
ervices									
kpansion Port 1	Enable traffic monit	oring							
cpansion Port 2	Data Linet			(					
-rints	Data Limit					MB			
utomatic Update	Warning Threshold					%			
stamization	Accounting Start	1							
istorinization	SIM Card	enabled	0	disabled		0			
ser moudles	Roaming State	not applicable		not applicable	,	0			
iministration	Data Limit State	not applicable		not applicable		0			
sers	Data Dinit State	not applicable		not applicable					
hange Profile	BIN0 State	not applicable		not applicable	,	<u> </u>			
hange Password	Default SIM Card	1st		1					
et Real Time Clock	Selauic Stim Card								
nlock SIM Card	Initial State	online	0						
nblock SIM Card	Switch to other SIM	I card when connectio	on fails						
and SMS	Switch to default S	IM card after timeout							
ckup Configuration	Initial Timeout	60		min					
store Configuration	and an interest								

Use *root* for user and *cu801* for password.

There are 3 important settings that have to be configured and some other for optional use.

- 1. Set the APN(Access point name) name (in the Mobile wan setting left menu under configuration)
- 2. Set the NAT(Network Address Translation) details (Route the CU801\_WEB IP through the router) Done default from manufacturer

# NAT configuration / already done from manufacturer. .

Default public port "80" Private (CU801\_WEB) port "80" CU801\_WEB server IP address "192.168.1.2"

C UKS >	1 (pot coi				E.A) =		
← → └   192.108.1	.1/nat.cgi				= [X =		
LIMTS router	LIDE				ŕ		
OMISIOULEI	UKS						
Status			N/	AT Configuration			
General	Public Port	Privato Port	Type	Server ID Address			
Mobile WAN	BO	80		192 168 1 2			
Network	40000	40000		402.400.4.2			
DHCP	10000	10000	TCP V	192.168.1.2			
IPsec	10002	10002	TCP •	192.168.1.2			
DynDNS			TCP 🔻				
System Log			TCP •				
Configuration			TCP V				
LAN			TCD .				
Mobile WAN			TCP •				
Backup Routes			TCP •				
Firewall			TCP 🔻				
NAT			TCP V				
OpenVPN			TCP .				
IPsec							
GRE							
L2TP			TCP •				
DynDNS			TCP 🔻				
NIP			TCP V				
SMMP							
SMS	🕑 Enable r	emote HTTP acc	ess on port	81			
Expansion Port	Enable r	emote FTP acces	s on port	21			
USB Port		entote Tributes	is on porc	27			
Startup Script	Enable r	emote Teinet ac	cess on port	23			
Up/Down Script	🗌 🔲 Enable r	emote SNMP acc	ess on port	161			
Automatic Update	Cond all		alna nadvoto i	to default conver			
Administration	Default Server IP Address						
Change Profile							
Change Password	Masquer 🖉	Masquerade outgoing packets					
Set Real Time Clock	Apply						
Set SMS Service Center	Abbiy						
Unlock SIM Card							
Send SMS							
Backup Configuration							
Restore Configuration							
Roboot							

The system is now ready for use:

## **APPENDIX WIFI connect :**

#### Cu801:

Turn on power. Find WIFI name (station name e.x 17000XX) log on wifi network with password written on top of the router (have to open box) To access router: Type 192.168.1.1 in browser To access web controller 192.168.1.2

#### Public IP:

Public IP (static/dynamic) is only available from some Network suppliers and with a spesial APN.

To see the public IP. Click submenu Network in the Status menu. If GPRS is running the interface ppp0 is displayed with the public IP number.

							1		
esse 👜 http://192.168.1.1/						~	🔁 Gå	til Koblir	
EDGE route	r ER75i	t.							
Status			Network Status						
Network			Interfaces	_/	,				
DHCP			Interfaces	/					
IPsec	eth0 L	ink encap:Ethernet NWaddr 00:0A:14:0:07:6C net addr192.166.1.1 Bcast:192.167.1.255 Mask:255.255.255.0 P BROADCAST RUNNING MULTICAST MY0.1500 Metric:1							
GPRS	1								
DynDNS	R	X packets:679 eri	orsi0 dropped: over	rruns:0 frame:0					
System Log		ollisions:0 txque	uelen:1000	cuns:0	carrie.				
Configuration	R	x bytes:95761 (93	.5 KB) TK bytes:295	589 (28	3.8 KB)				
LAN	ppp0 L	ink mcap:Point-Point Cotocol							
GPRS	i	net addr:212.169.92.00 P-t-P:10.0.0.1 Mask:255.255.255.255							
NAT	R	X packets 116 err	rower0 dropped:0 overruns:0 frame:0						
IPsec	TX packets:120 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:3 RX bytes:4123 (4.0 KB) TX bytes:4201 (4.1 KB)								
GRE									
L2TP									
DynDNS			D						
NTP			Route Table						
SMS	Destination	Gateway	Genmask 255.255.255.255 255.255.255.0 0.0.0.0	Flags Metri UH 0 U 0 UG 0	Metric	Ref 0 0 0	Use 1	Iface	
PIN	10.0.0.1 192.168.1.0	0.0.0.0			0		8	ppp0 eth0	
External Port	0.0.0.0	10.0.0.1			0		0	0 ppp0	
Administration									
Change Password									
Set Real Time Clock									
Backup Configuration									
Backup Configuration Restore Configuration									
Backup Configuration Restore Configuration Update Firmware									

In this case IP 212.169.92.25 Type 212.169.92.25/Data.htm in the address line in any browser to access the data.htm page.

The routers configuration page can be reached from internet with same IP, but has ":81" in the end, for example 212.169.92.25:81

Additional/optional setting:

#### DynDns:

If the IP number is dynamic, it will be changed every time the GPRS reconnect. To keep track of IP change there is a possibility of register the router at <u>www.dyndns.com</u>. To register is free and after getting a username, password and domain example "xxxx.homelinux.com" add the detail in the DynDns.

	DynDNS Configuration			
💌 Enable	DynDNS client			
Hostname	xxxxx.homelinux.com			
Usemame				
Password				
Apply				

The data.htm is now access able by xxxx.homelinux.com/data.htm

#### SMS under services:

To get a message if the GPRS connection is down or reconnected.



SAIV A/S Environmental Sensors & Systems

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