

## Embedded Web Server Unit CU801.

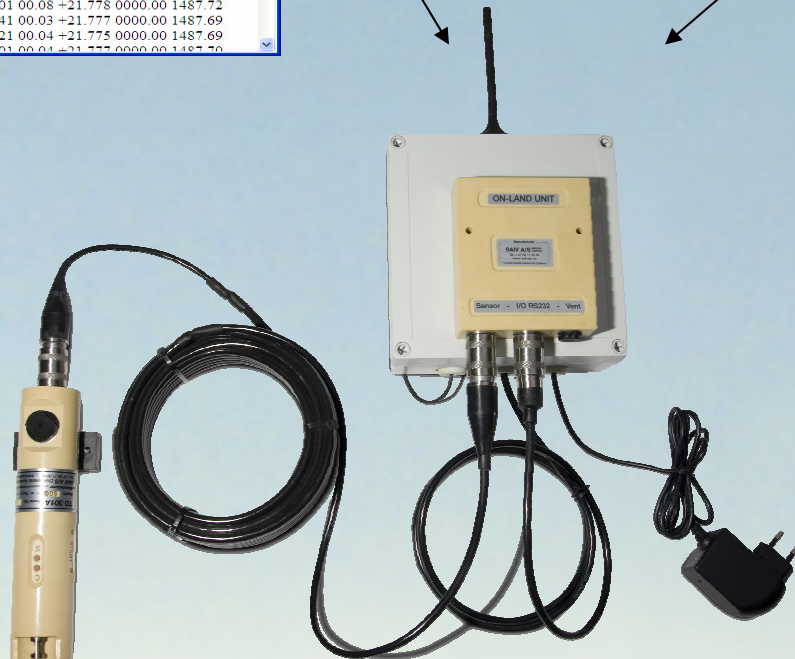
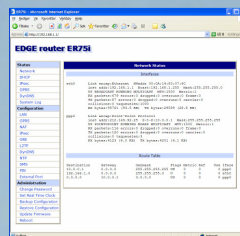
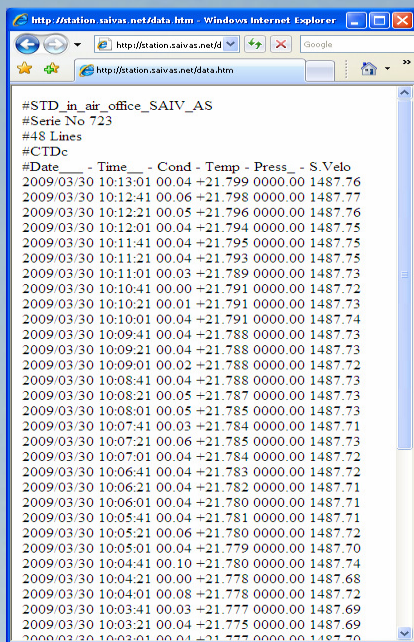
### Presents dynamic data from SAIV products on built-in web page

#### Applications:

- Live monitoring/recording of logging instruments in sea, lakes, reservoir
- Direct communication with instruments by using the SD200W software.

#### Features:

- Multiple http data collection from any platform with installed browser and Internet connection. Platforms as unix, windows, solarix, linux, mac etc...
- Http is seldom blocked by firewalls and intranet routers
- Stable communication with out need of peer-to-peer connection.
- Fast boot time
- Auto configuration for any SAIV A/S instrument.



The CU801 is a unit for governing data acquisition on measuring stations/buoys in the field. It is based on dynamic web pages that are continuously updated by data from a connected instrument/sensor. The CU801 consists of an embedded web server and network router that communicates on the global GSM network with possibility of using GPRS/EDGE/3G for faster communication.

For displaying web pages on Internet, the web server use standard TCP/IP protocol. It has a running operating system that has a very fast boot time, approximately 0.1 second.

For continuous working, the web server has built-in watchdog. Each web server can be programmed from Internet and easily be configured with station name and numbers of lines displayed.

For changing measurement interval time and other instruments settings, it is possible to use the SD200W program to connected with the CU801, and by a menu, ask for a transparent connection with the instrument connected. The menu of the instrument will then be displayed as it was connected directly to the computer by the RS232 communication port. When changes are done and the transparent connection is ended, the web server reads changes on the output of the instrument and automatically update the web page.

The GSM network router also has built in web server for configuration, that can be reached when the system is running on a field station. This configuration is password protected and is only meant for service use. One of the configurations is firewall setting.

For making sure that the communication is up running at any time, the router has built-in watchdog and always check its connection and reconnect if connection is lost.

As in all field station, power is always a criteria. Since the system is meant to be a “live” system there has to be power at all time. The total consumption is maximum 2.7 Watt per hour.

To get CU801 on Internet there has to be a mobile telephone GSM SIM card installed in the GSM network router, only data traffic is required. The IP number can be static IP (The Server gets the same IP number on every new connection) or Dynamic IP (The IP number changes on each new connection). The latter is most used and recommended.

When use of dynamic IP “SAIV AS” will configure the CU801 to a static web address suitable for the customer, with a common domain “[saivas.net](http://saivas.net)”. The station will then be reachable by a web address i.e. <http://station.saivas.net>

When dynamic IP is the only option, make sure to check with the telephone provider that this is a public IP number . GSM has normally a network range of 4 km from the coastline.

The CU801 is delivered with PC-program SD200W and an IP66 box containing the web server and GSM network router, power and other installing equipments has to be provided.

### **Specifications:**

Dimensions length 175mm, Wide 175mm, Height 75 mm

Weight: 0.4 kg

Materials: Case, PVC, IP66

Connections: SAIV 10-03

Power: 10- 30 VDC

Data I/O: RS232, Ethernet Base 10.