Since 1993 GO Systemelektronik GmbH develops competent, customer-oriented and cost-conscious technical solutions for all what has to be measured, regulated and controlled.

The measuring of chemical and physical parameters in water or hydrous dilutions is a main focus of GO.

„We are making liquids transparent“ is the guiding idea which motivates our team of 25 co-workers to develop solutions for different appliances: from a single sensor to a complex measurement and controlling system, like the BlueBox.

An appliance in which GO collected knowledge and experience is the area of aquaculture and aquariums.

The self developed sensors and the measurement and controlling system BlueBox are ideal adapted for the requirements of fish breeding and fish farming.

InSitu SpectralAnalyser (ISA)

GO Systemelektronik GmbH has developed for online analysis of various parameters a spectrometer. GO it could incorporate many years of experience with the spectrometers on the market in the self-development.

For two years, the spectrometer has been marketed.
It has significant advantages compared to competitive products:

- The sensor head is very compact and small. This makes the process connection often easier to implement than the competing products
- The entire electronic components are located in a separate enclosure. The sensor head is connected only by an optical fiber (length up to 20m) with the electronics. This allows the stainless steel (1.4539) probe also produced in aggressive media and hot (80 ° C in continuous use and up to 120 ° C in the head are introduced). This is as relevant for applications in the food industry. Keywords: sterilization.
- The optical path length can easily be manipulated by a set screw. This allows the spectrometer in the commissioning of the medium to be analyzed are optimized successively. So it is not necessary to have adapted the spectrometer by the manufacturer
- The associated software allows the experienced user itself to carry out calibrations.
- By an optional GSM or even UMTS modem in the evaluation unit (BlueBox) the remote access to the system is easy
- The central evaluation unit (BlueBox) is the core of the services of measuring and control technology. Therefore, additional sensors and actuators can easily be connected to a spectrometer. This is possible through a subsequent extension

References

Waste water plant Neumünster / Germany
SAK254/COD and Nitrate Measuring in aeration tank

Waste water plant Husum / Germany
SAK254/COD and Nitrate Measuring in areaation tank / high rate abattoir

Waste water Eppingen / Germany
COD and Nitrate Measuring in supply

Dairy Barmstedt
CSB in direct discharge

Osterhusumer Dairy Witzwort
CSB in discharge of Dairy

Breitenburger Dairy
CSB in discharge of Dairy

Hansano Upahl
CSB in discharge of Dairy

Südmilch Jessen
CSB in water treatment

Bonduell Portugal
CSB and Turbidity in process of Dairy

Dairy Süd Wales
CSB in discharge of Dairy

Waste water Reinfeld
Control of Waste water (CSB and Nitrate)

l'Institut National de Météorologie et Météo-France
Environmental monitoring, 5 installations

Aserbaidschan
Environmental – River monitoring international NATO-Project

Tire industry (Goodyear)
TOC und COD monitoring and controlling process and wastewater

Sevilla, Spain
Drinking water monitoring

AGE Chiasso,Italy
Drinking water monitoring

Doehler Sirup
Process water controll, sugar, Brix, COD and TOC

Repperswil, Switzerland
Drinking water monitoring

SWG Worben
Drinking water monitoring

vonRoll, Switzerland
more than 20 stations Drinking water monitoring

Dairy Estland
Watewater , COD

Gaswerke Vienna, Austria
waste deposit TOC, COD, NO3

Dairy Holtsee, Germany
Wastewater, COD

Thailand
Control of process water, approx. 40 installations

China
CSB in discharge of industrial sites, approx. 100 installations

Malaysia
Environmental monitoring, aprrox. 20 installations

Taiwan
Environmental monitoring / Waste water, approx. 5 installations

Netherlands
approx. 25 installations

Indien
Environmental monitoring

Airbus, Germany

Airport Lübeck

Dairy Milei, Germany
CSB in discharge of Dairy

England
approx. 10 installations

Vietnam
approx. 5installations

Dairy Holtsee
CSB in discharge of Dairy

Dairy Andechs, Upper Bavaria
CSB in discharge of Dairy

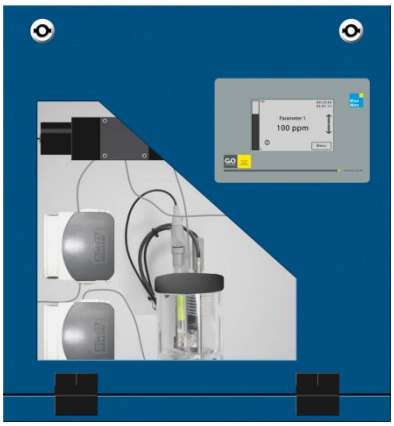
Holland
Monitoring

Federal Office for maritime traffic
Monitoring Cruises

Berlin Water Oprations
Environmental Monitoring

Institution of hygiene, Hamburg

BlueMon Analyser



Features

- Factory calibrated
- Simple maintenance
- Up to 6 sample lines
- Modular expandable
- Intelligent event-handling [SMS and E-mail]
- Ready for network based data processing

and control technology [BlueGate]

Extract of our list of references for BlueMon Analyser

Municipal Dewatering Düren
Städtische Entwässerung Düren

Berlin Water Operations
Berliner Wasserbetriebe

Municipal Dewatering Reinfeld
Städtische Entwässerung Reinfeld

Advanced Technical Collage Lübeck
Fachhochschule Lübeck

Federal Office for maritime traffic
Bundesamt für Seeschifffahrt

Aquaculture

Extract of our list of references for aquaculture and aquariums

Landcatch Chile, Puerto Montt, Chile
Measurement of temperature, dissolved oxygen, pH-value, conductivity and nitrate in breeding ponds for salmons

ECO DECO, Netherlands
Measurement of oxygen, redox, temperature, pH-value and nitrate, controlling of pumps and valves, controlling of the illumination in a sponge breeding culture

Zoo Amsterdam, Aquarium, Netherlands
Measurement of oxygen, redox, temperature, pH-value and nitrate, controlling of pumps and valves, controlling of the illumination

University Wageningen, Netherlands
Measurement of oxygen, redox, temperature, pH-value and nitrate, controlling of pumps and valves, controlling of the illumination

Innovationszentrum Itzehoe (IZET), Itzehoe, Germany
Measurement of temperature, pH-value and nitrate

Fish farm Reese, Sarlhusen, Germany
Measurement of temperature, oxygen and controlling oft he pumps for the oxygen feeding

Fish farm Helmstorf, Germany
Measurement of temperature, oxygen and controlling oft he pumps for the oxygen feeding

Fischtechnik Fredelsloh, Germany
Measurement of temperature, oxygen and pH-value, controlling of the pumps for the oxygen feeding, monitoring of the facility, measurement of the medium consumption

diverse facilities for shell and fish breeding, Irleand
Measurement of temperature, oxygen and pH-value, controlling of the pumps for the oxygen feeding, monitoring of the facility

Abalone, Brandon Bay, Ireland
Measurement of temperature, oxygen and pH-value, controlling of the pumps for the oxygen feeding, monitoring of the facility

Holsten Kaviar, closed loop facility, Lütjenburg, Germany
Measurement of temperature, oxygen and pH-value, controlling of the pumps for the oxygen feeding, monitoring of the facility

closed loop facility Aal, Wittenberg, Germany
Measurement of temperature, oxygen and pH-value, controlling of the pumps for the oxygen feeding, monitoring of the facility

Caviar Creator, sturgeon breeding, Demmin, Germany
Measurement of temperature, oxygen and pH-value, controlling of the pumps for the oxygen feeding, monitoring of the facility

visitors center, Waren an der Müritz, Germany
Measurement, regulation and controlling of the aquariums

Ozeaneum Stralsund, Germany
Data capturing at the aquariums, visualisation and transmission of the data to a control and communication system for facilities from SIEMENS

Impressions of GO Systemelektronik equipped facilities:

Aquaculture Demmin

Illustation 1: breeding pond – under construction

Illustration 2: BlueBox – central unit of the from GO developed measurement, regulation and controlling system

Illustration 3: filled breeding ponds

Abbildung 4: sturgeons in breeding

Aquarium - Ozeaneum, Stralsund, Germany

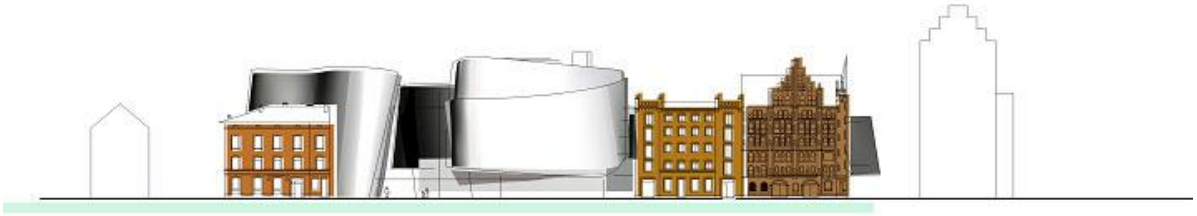


Illustration 5: Ozeaneum, german ocean museum, Stralsund, architects: Behnisch & Partner, whole data capturing by GO Systemelektronik with interface to a control and communication system for facilities from SIEMENS

Illustration 6:
one of over 50 measuring points in the Ozeaneum

Illustration 7: ocean turtle in the aquarium of the Ozeaneum