

Synthesis Report

Introduction

A Project of 24 Month duration (Project No: CR-1031-91) was carried out collaboratively between a team of proposers headed by Reagecon Ltd, Shannon Free Zone, Shannon, Co. Clare, Ireland and collaborated with by Prof. Martin-Bouyer of Universities de Savoie in Chambry in France.

The basis of the Project was pre-competitive and had the objective of developing an enhanced range of Sensors to satisfy the growing demands for pH and Ion measurement for in-line and process applications. The necessity for such inventions was clearly outlined the specific needs of consortium members and the necessity to enhance the competitiveness of SMES in the EU by providing technology which is within the technical and financial resources of SMEs.

Results

The products which have resulted from the Project, although completely in synergy with each other from an exploitation and marketing point of view can be subdivided into various sub-components to facilitate understanding. These are as follows:

- (a) pH Electrodes using newly developed state of the art reference systems and newly developed sensing glasses which can withstand the rigours both physical and chemical of process measurement and control
- (b) A range of Ion Selective Electrodes which enhance the current state of the art specifically for Nitrate, Fluoride, and Copper in a number of process applications.
- (c) The Reset System which is designed to facilitate the communication from all of the above mentioned Sensors by RS485 from sensor to a PC. It also facilitates the multiplexing of these signals, galvanic isolation, analog and digital inputs and outputs, analog and digital conversion and the control of the process by PC.

All of the above have been successful, prototypes have been manufactured and in some cases are operational and fully functional from a technical viewpoint for up to 12 months. Brochures and other marketing material, both technical and commercial is now in preparation and detailed information can be had on any of the developed products from the contacts below.

Summary

We believe that the products that have been developed from out of this project (CR-103 1-91) substantially enhance the current state of the art for on-line, pH measurement and control and are in substantial compliance with the overall objectives of the Project.

Addresses to contact:

John Barron
Reagecon
Shannon Free Zone
Shannon
Co. Clare
Rep. of Ireland
Tel: + 35361472622
Fax: + 35361472642

Prof. Martin-Bouyer
Universities de Savoie
BP 253
73375 Le Bourget du Lac
Chambrey
France
Tel + 333779758844
Fax: + 333779758843

Nils Gustaffson
Nitec AB
Box 1204
S 181 23 Lidingsö
Sweden
Tel: +00 4687670300
Fax: +00 4687674865

Prof. Klaus Schmidt
IUTA
Bliersheimer Straße 60
47229 Duisburg
Germany
Tel: 0049 2065418207
Fax: 0049206541821 I