

BEKA indicators help to refuel green buses

BEKA associates intrinsically safe indicators and panel lamps are being used at London's first hydrogen filling station in Hornchurch near Romford. This BP filling station has been built to refuel three first generation Daimler Chrysler fuel cell powered buses being operated by London Buses as part of the pioneering CUTE (Clean Urban Transport Europe) project involving trials in eleven European cities



from Stockholm to Madrid. This EC co-funded two-year project will assess the day-to-day performance of fuel cell powered vehicles in a wide variety of conditions, with the long-term aim of reducing urban air pollution and noise.

Initially operating alongside conventional double-decker buses on Route 25 between Oxford Circus and Ilford, when the field trial is well established London Buses intend to run these fuel cell buses on their other routes to fully test their operational and environmental effectiveness.

The demonstration BP filling station is supplied with liquefied hydrogen by BOC from its manufacturing plants in Holland and France via a 2.5 tonne road tanker. At the filling station the liquefied fuel is stored in an underground vacuum insulated vessel, from which buses are refuelled with a 40kg load of gaseous hydrogen. Each refuelling provides at least 125 miles of urban operation.



BEKA intrinsically safe loop powered indicators are used to display level and pressure on the Liquid Hydrogen Delivery Panel which also contains BEKA intrinsically safe LED indicator lamps and a BEKA alarm sounder.

Bus refuelling is fully automated and also includes two BEKA loop powered indicators showing the pressure and temperature within the six gas storage cylinders that are mounted on the bus roof adjacent to the fuel cells.

Silver for BEKA Fieldbus

Johnson Matthey are using a BEKA BA684DF Fieldbus Display on their recently installed Silver Paste Plant at Royston in Hertfordshire. The field mounting Profibus PA instrument is mounted outside in the plant utilities area which houses the processes abatement, vacuum pumps and dust extraction systems. The Fieldbus instrument currently displays stack analysis information, plant pressure and carbon bed temperatures. The Project Engineer commented that it took less than one hour to commission the BEKA display using Commuwin to set the variable addresses and to manually enter the scale and tag information.



Courtesy Johnson Matthey



Courtesy Braby

BEKA indicates the way for Chicken Balti Pies

Silo and storage tank manufacturer Braby chose BEKA loop powered indicators for their turnkey flour handling and storage installation at Shire Foods in Leamington Spa. This Warwick based food group, creators of the famous Chicken Balti Pie, built their new factory to satisfy ever increasing demand for their pies which are now the nation's favourite soccer snack.

Braby installed and commissioned a 40 tonne aluminium flour silo and a flour handling system to transport material from the silo into the new factory where it is transferred into a 150kg receiving vessel.

New literature

A six page product summary, **Intelligent Displays & Indicators**, describing **BEKA Serial Text Displays, Fieldbus Displays** and our new **Fieldbus Indicators** was published in March 2006.

Copies in English, French or German may be downloaded from **www.beka.co.uk**, or requested from the BEKA sales office.



FOUNDATION Fieldbus™ displays host the most!

Since their introduction in 2004, BEKA eight variable FOUNDATION fieldbus™ and Profibus PA Displays have found worldwide acceptance because of their large backlit displays and extensive safety certifications.

To enable the FOUNDATION fieldbus™ versions to operate with hosts which do not yet support Multiple Analogue Output function blocks (MAO), we have recently introduced Revision 2 firmware which includes selectable fieldbus function blocks and enhanced features:



> Selectable function blocks for FOUNDATION™ fieldbus versions:

- 1 x MAO (Multiple Analogue Output)
- or 2 x IS (Input Selector)

allows display to operate with almost any fieldbus host

> Standard display screen formats increased from 4 to 9

reduces need to design custom screens

> Multiple bargraph limits

enables each variable to have a different bargraph range

> Input variable scaling

useful for changing display units

Revision 2 firmware is now included in all new instruments which remain compatible with earlier versions.

New certifications

FM Approval for Serial Text Displays

Our popular BA484D and BA488C serial text displays have recently received intrinsic safety and nonincendive FM Approval, which together with their existing ATEX and IECEx certifications allows installation in most countries.

BA405C Set Point Station can be used in USA

Our well established BA405C set point station may now be used in the USA thanks to intrinsic safety and nonincendive approval from FM. The panel mounting loop powered instrument incorporates a ten turn knob for manual adjustment of the 4/20mA loop current and a digital display which may be calibrated to represent the current in engineering units. The instrument is ideal for adjusting controller set points or variable speed drives from within the hazardous area.



Japanese approval for BA369 IS clock

Pepperl+Fuchs KK, who represent BEKA in Japan, have obtained TIIS approval for the BA369 battery powered intrinsically safe digital clock which accurately displays local time in a hazardous area. This approval supplements the original ATEX certification that was obtained when the clock was introduced.

NEW! lower cost single variable fieldbus indicators



Following the popularity of our eight variable fieldbus displays, BEKA has developed a new range of lower cost, single variable, FOUNDATION fieldbus™ indicators. First seen at the Interkama exhibition in Germany, these new instruments have an easy to read 5 digit, 20mm high display, plus a 31 segment bargraph and are available for field and panel mounting applications. ATEX, IECEx and FM Intrinsically safe models will be available later this year, together with Type nL and nonincendive models. In addition to FISCO compliance, the intrinsically safe models have 22V entity input parameters allowing connection to most intrinsically safe segments.



Alec Robshaw BEKA associates Sales Director with Takaharu Matsumoto Yokogawa Business Development Manager.

Yokogawa grants BEKA preferred vendor status

In Autumn 2005 Yokogawa signed a Global Preferred Vendor Agreement with BEKA for our comprehensive range of fieldbus instruments. This agreement, which includes Yokogawa's head office in Japan plus four regional headquarters in Singapore, China, the Netherlands and the USA, will provide indicators and displays to compliment Yokogawa's extensive range of field mounting instrumentation.

BEKA calling. . . A third generation ATEX certified intrinsically safe sounder has recently been introduced to replace the well established BA385-IIB and BA385-IIC. The new BR385 retains the same dimensions as the earlier models but can generate 49 different first stage tones and has IP66 protection. It may be powered from any 28V 93mA Zener barrier or galvanic isolator and can be used with the BA386 LED flashing beacon.

New BEKA folk

Our internal sales team has recently been strengthened by the recruitment of Office Assistant **Lorna Hill** and Internal Sales Engineer **Darryl Jones**. Darryl is already known by some of our customers having spent many years promoting US panel meters in Europe.



Dave Turner has joined BEKA as an Area Sales Manager to help support our customers and agents in China, the Middle and Far East. Dave is a qualified engineer who for the last ten years has been the export sales manager for a British manufacturer of electrical measuring instruments.