



Display Instrumentation

for use in
Hazardous

and Safe Areas



- ♦ Founded in 1982 by Chairman Chris Burkitt
- ♦ Privately Owned
- ♦ 10,000+ Indicators/Displays Per Year
- ♦ 4,000+ Sounders/Beacons/Lamps
- ♦ 60% Export
- ♦ UK Design & Manufacturing
 - ♦ 35 Staff
 - ♦ Hitchin, Hertfordshire



KEY PRINCIPLES & PROTECTION CONCEPTS

- ◆ BEKA - Key Principles
 - ◆ Big & Easy To Read
 - ◆ Wide Selection
 - ◆ High Quality
 - ◆ Fast Lead-Times
 - ◆ 3-Year Warranty
- ◆ Protection Concepts
 - ◆ Intrinsically Safe
 - ◆ Explosion Proof
 - ◆ Increased Safety

Display instrumentation

for use in **hazardous**

and **safe areas**



CERTIFICATION

- ♦ International - IECEx
- ♦ Europe - ATEX
- ♦ North America – FM & ETL
- ♦ ISO 9001:2015
- ♦ China - CCC Ex



INDUSTRIES SERVED

- ♦ Oil Production & Refining
- ♦ Gas Processing & Transportation
- ♦ Chemical Processing
- ♦ Plastic & Paint Production
- ♦ Pharmaceutical Industry





- ♦ UK
 - ♦ Direct To Customers
- ♦ World-Wide
 - ♦ 42 Partners World-wide
 - ♦ All With “Ex” Knowledge

BEKA SALES TEAM



Laura



Andy



Mark



Sally



Dave



Product Range & Applications

Display instrumentation

for use in **hazardous**

and **safe areas**



GAS & DUST CERTIFICATION PROTECTION CONCEPTS

- ♦ **Ex i** (Intrinsically Safe)
 - ♦ Zone 1 or 2
- ♦ **Ex tb** (Dust Protection by Enclosure)
 - ♦ Zone 21 or 22
- ♦ **Ex e** (Increased safety)
 - ♦ Zone 1,2, 21 or 22
- ♦ **Ex p** (Purged)
 - ♦ Zone 1 or 2
- ♦ **Ex d** (Flame Proof)
 - ♦ Zone 1 or 2



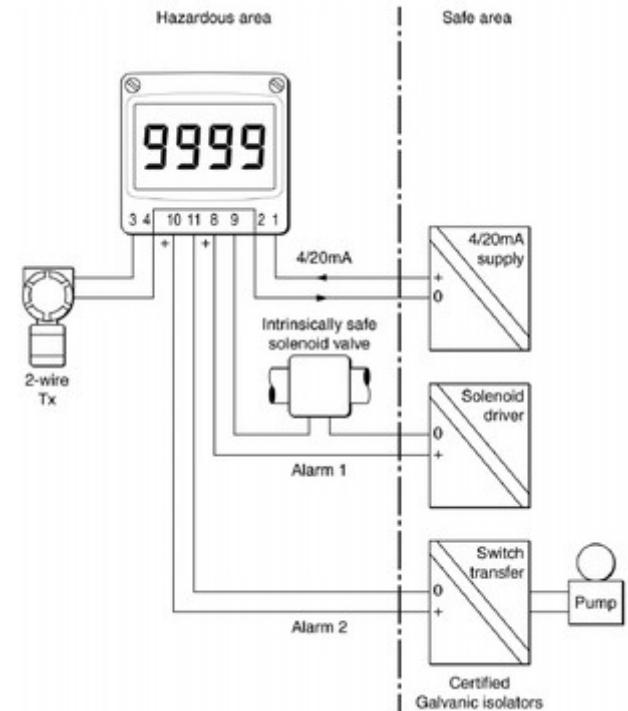
ENCLOSURE TYPES



- ♦ Field Mounted
 - ♦ GRP (Glass Reinforced Polyester)
 - ♦ “G” Compact
 - ♦ “E” Easy Terminal Access
 - ♦ Stainless Steel
- ♦ Panel Mounted
 - ♦ 72 x 144mm
 - ♦ 48 x 96mm
 - ♦ Rugged 60 x 105mm
 - ♦ Bar-Graph 144 x 48mm

SIMPLE CONTROL IN “Ex” AREAS MORE THAN A DISPLAY

- ♦ **Modbus Display**
 - ♦ 2 Isolated Switch Outputs As Standard
- ♦ **Fieldbus Alarm Outputs**
 - ♦ Optional 6-Channel Alarm Cards
- ♦ **Batch Controllers**
 - ♦ Dedicated Controller
- ♦ **Set Point Generator**
 - ♦ 4-20mA Control Output
- ♦ **Re-Transmitted Data**
 - ♦ Standard & Optional Features On All Pulse Input Products
 - ♦ Pulse or 4-20mA Output
- ♦ **Dual Alarm Outputs**
 - ♦ Optional On Nearly All Products



4-20mA LOOP POWERED INDICATORS



- ♦ Extensive Selection
- ♦ High Contrast LCD
 - ♦ 4 and 5 Digit
 - ♦ Up to 34mm High
 - ♦ Bar-Graph
- ♦ Push-Buttons
 - ♦ Display & Loop Info
 - ♦ Configuration
- ♦ Options
 - ♦ Backlight
 - ♦ Alarms
- ♦ Operating Temp. Range
 - ♦ -40°C - +70°C



- ♦ Simple But Extensive Configuration
 - ♦ Linear, Non-Linear, Sq Root
 - ♦ -99999-0-99999 Scaling (5 Digit Models)
 - ♦ Decimal Point & Resolution
 - ♦ Internal References for Scaling (SET)
 - ♦ Tare Function
- ♦ Accessories
 - ♦ Pipe & Panel Mounting Kits
 - ♦ Slide-In Scale Cards
 - ♦ Laser Engraved SS Tag Plates
- ♦ Configuration & Scaling Included

“RUGGED” PANEL MOUNTING DISPLAYS

- ♦ Designed For Systems
 - ♦ Ex e (Increased safety)
 - ♦ Ex n (Type n Protection)
 - ♦ Ex p (Purged)
 - ♦ Ex i (Intrinsically Safe)
- ♦ Zone 1 or 2
 - ♦ Zone 2 Products
 - ♦ No Barrier
- ♦ High Impact Enclosure
 - ♦ 316 Stainless Steel & Toughened Glass
- ♦ IP66 Ingress Protection
- ♦ Maintains Impact Rating & IP of Original Enclosure



“RUGGED” PRODUCT GROUPS



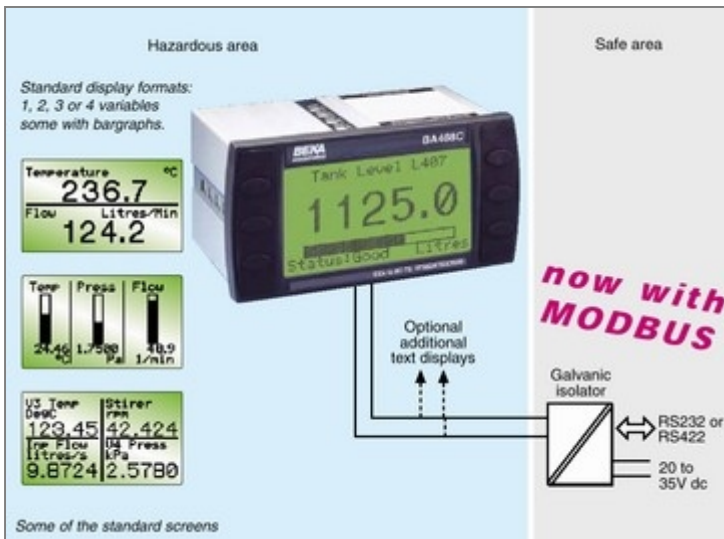
- ♦ **4-20mA Input** Loop Powered Indicators
- ♦ **4-20mA Output** Set Point Stations
- ♦ **Pulse Input** Totalisers, Tachometers, Counters, Timer or Clock



SERIAL TEXT DISPLAY



- Simple Display Applications
- Low Cost HMI
- Modbus or RS232 Input
- Alternative for up to 8 Indicators
- PLC/PC Applications
- BEKA Isolator
- Power & Data



SERIAL TEXT DISPLAY

- ♦ High Contrast Backlit Display
- ♦ Operator Push-Buttons
 - ♦ Internal or External
- ♦ Displays Up To 8 Variables
- ♦ Custom or 11 Standard Screens
- ♦ Free Utility Programs
 - ♦ Screenwriter
 - ♦ Simulator
 - ♦ Script Writer





FIELDBUS INDICATORS & DISPLAYS



- ♦ Profibus or Foundation Fieldbus
- ♦ Indicator or Display
- ♦ Single or 8-Variables
- ♦ Bus Powered
- ♦ Display – Graphical
 - ♦ Choice of Screens
- ♦ Indicator – Single Variable
 - ♦ Scrolls Though Up To 8 Variables
 - ♦ Listener or Addressable

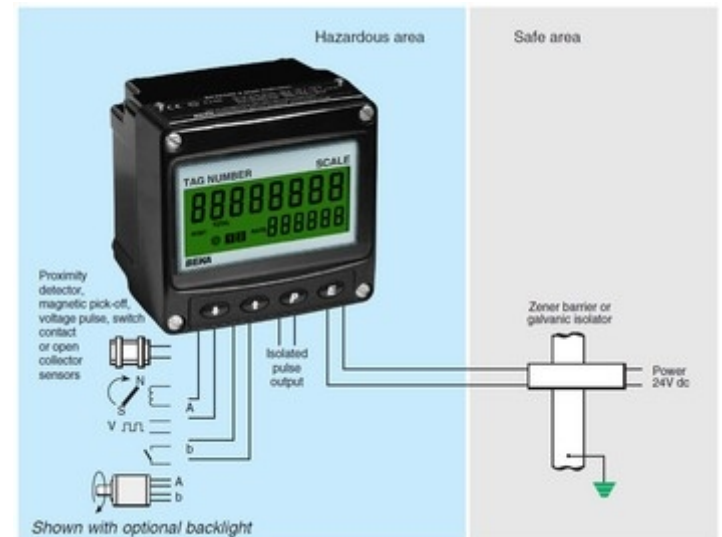


PULSE INPUT PRODUCTS

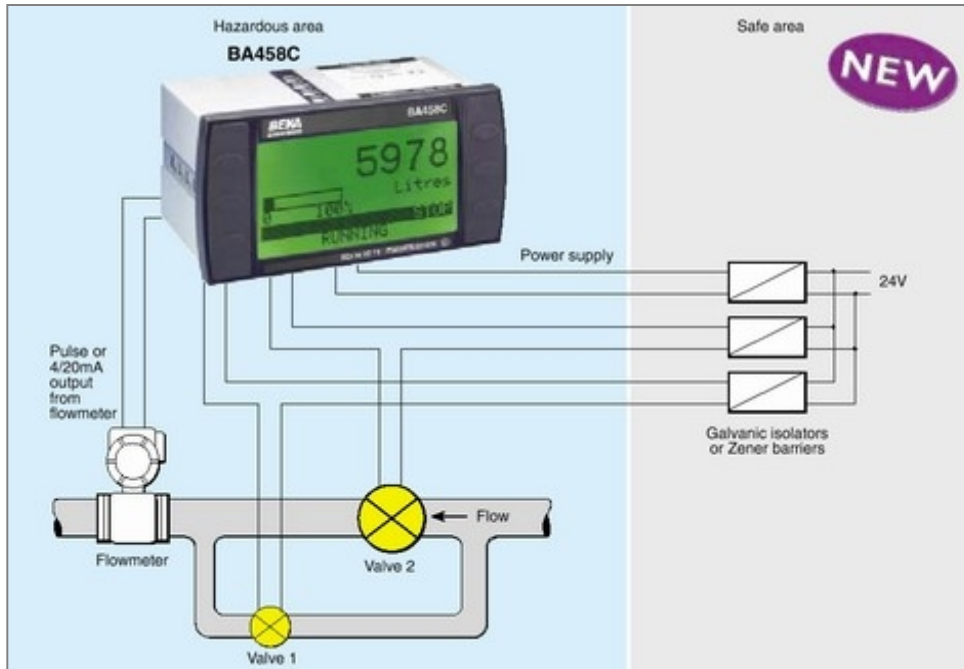
- ♦ Applications
 - ♦ Flow Rate Totaliser
 - ♦ Tachometer
 - ♦ Counter
 - ♦ Timer/Clock
- ♦ Features
 - ♦ Choice of Inputs
 - ♦ Options
 - ♦ Backlight
 - ♦ Alarms
 - ♦ Pulse Output
 - ♦ 4-20mA Output

- ♦ Flow Rate Totaliser
 - ♦ Remote Indication
 - ♦ Rate, Total & Grand Total
- ♦ Counter
 - ♦ Mud Pumps
 - ♦ Strokes or Volume
- ♦ Tachometer
 - ♦ Engine/Turbine/Compressor
 - ♦ Speed & Hours Run
- ♦ Timer/Clock
 - ♦ Process Control
 - ♦ Counts Up or Down

PULSE INPUT PRODUCTS



BATCH CONTROLLER



- ♦ Tanker Loading
- ♦ Self Contained Controller



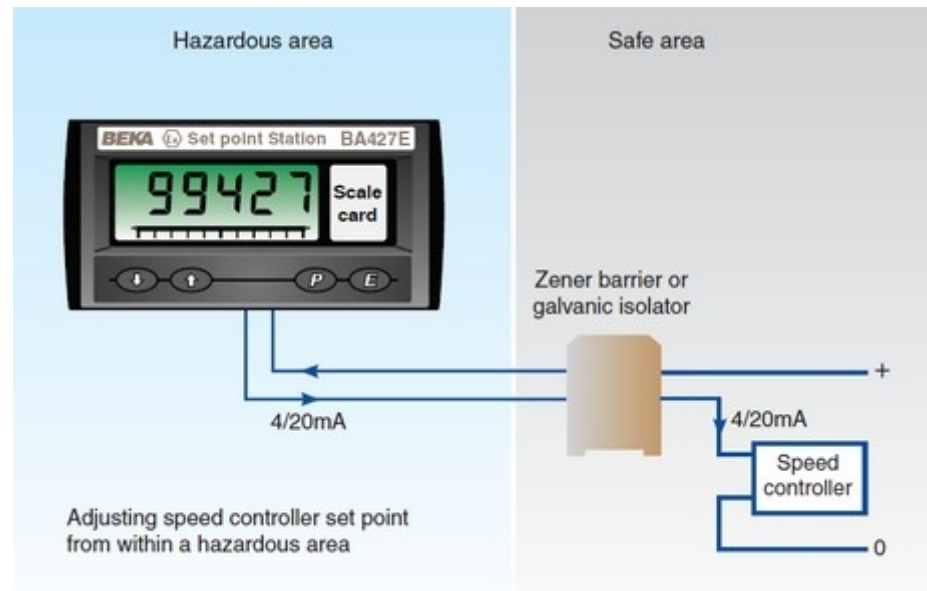
SET POINT GENERATOR 4-20 mA LOOP POWERED

- ♦ Manual Process Control
 - ♦ For 4-20mA Input Devices
 - ♦ Speed Control
 - ♦ Valve Management
 - ♦ Temperature Control
 - ♦ Pump Control
 - ♦ Pre-sets
 - ♦ Ramp Setting



SET POINT GENERATOR 4-20 mA LOOP POWERED

- ♦ IS & General Purpose Models
 - ♦ SS Rugged Available
 - ♦ Push-Button Operation
 - ♦ Optional Quadrature Rotary Encoder
- ♦ Options
 - ♦ Back Light
 - ♦ Rear IP66 Sealing Kit



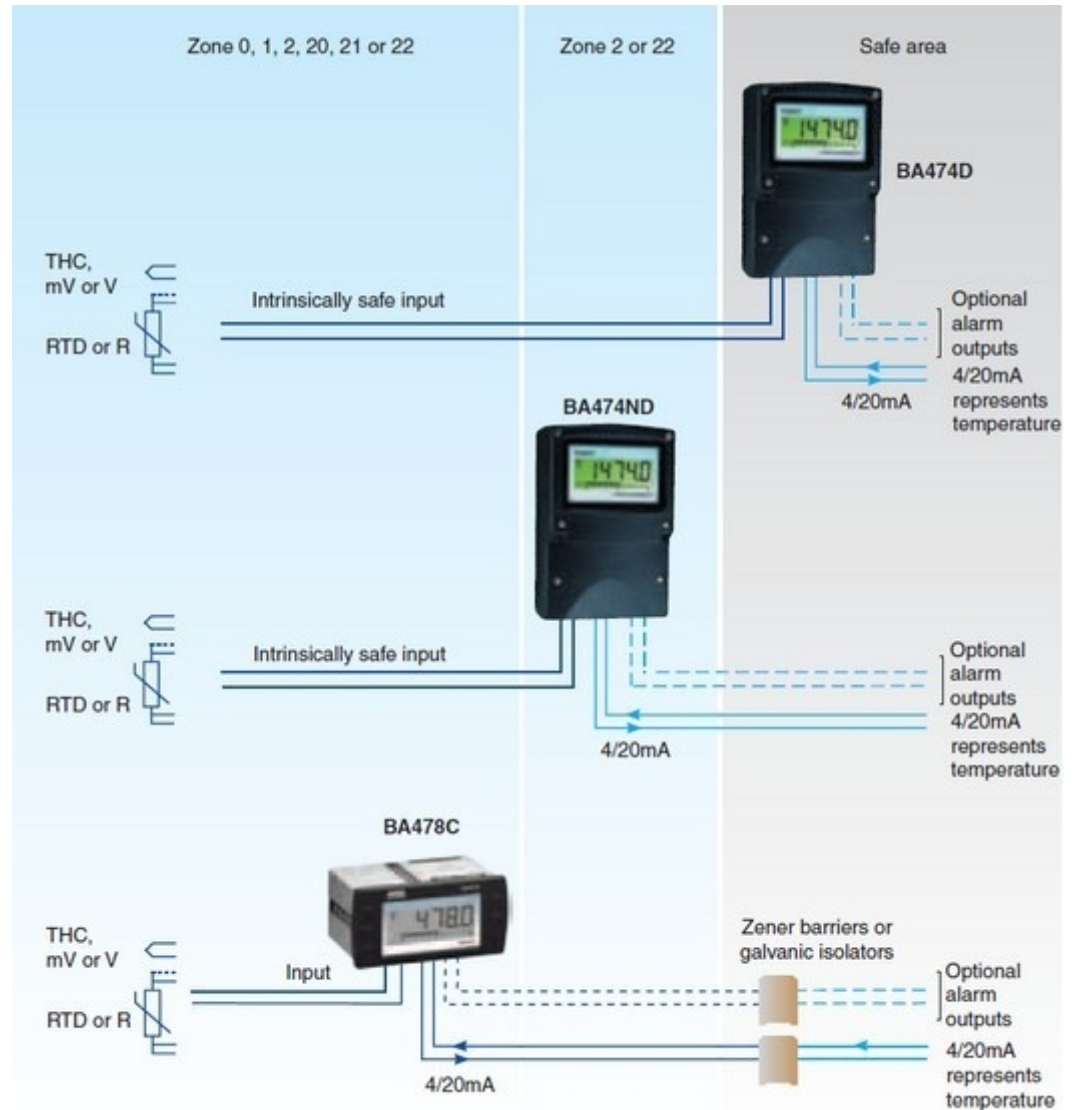
INDICATING TEMPERATURE TRANSMITTER

- ♦ A Temperature Transmitter with A Big Display
 - ♦ 5 Digits 20mm High Display c/w 31 Segment Bar Graph
- ♦ Transmits Temperature Value as 4-20mA
- ♦ HART Configuration & Sensor Diagnostics
- ♦ Inputs - RTD, THC, Vdc or Resistance
- ♦ Loop Powered



- ▶ Integrated Barrier Components
- ▶ Cost Saving?

INDICATING TEMPERATURE TRANSMITTER



ADVISOR A90 UNIVERSAL PROCESS METER

- ♦ Inputs
 - ♦ 4-20mA, 0-50mA, 0-100mV, 0-1V, 0-10V, RTD
- ♦ Multi-Colour Negative Back-Lit Display
- ♦ Power Supply (2 Models)
 - ♦ 10-36Vdc or 90-264Vac
- ♦ Options
 - ♦ 2 Channel Alarm
 - ♦ Traffic Light
 - ♦ 4-20mA Output
 - ♦ Inc 24Vdc Tx Supply
 - ♦ Modbus





BEKA

Intrinsically Safe since 1983

APPLICATION - NUCLEAR INDUSTRY GLOVE BOXES



SOUNDERS & BEACONS INTRINSICALLY SAFE



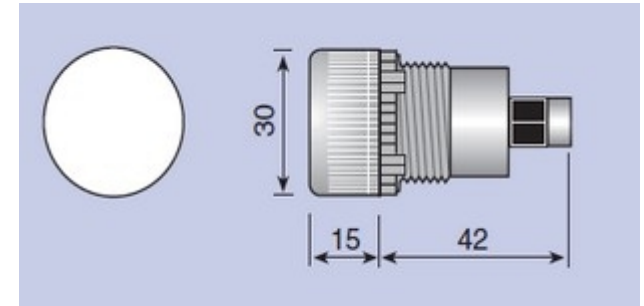
- ♦ Intrinsically Safe - power limited
- ♦ Low cost and loud (up to 103dB)
- ♦ Beacons available in :-
 - ♦ Flashing or Steady State
 - ♦ Red, Amber, Green, Blue or White
- ♦ Exceptional light output
- ♦ Single or Combined Pair
- ♦ Alarm accept facility
- ♦ Can be driven from a single isolator

SOUNDERS & BEACONS ***Ex d - EXPLOSION PROOF***

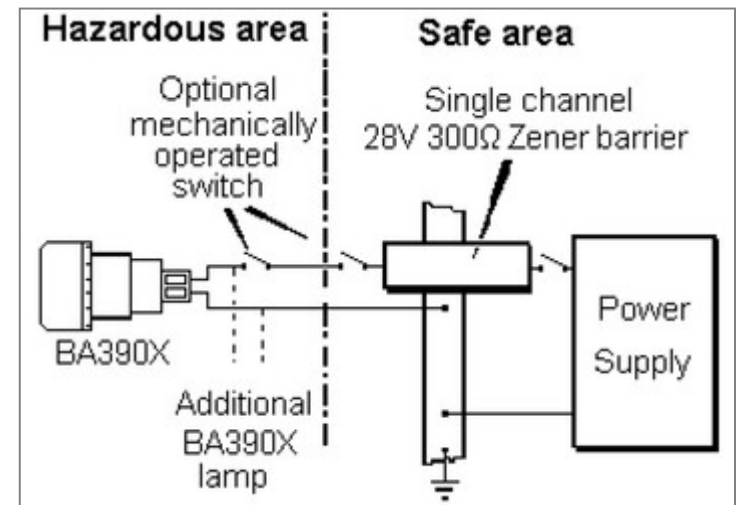


- ♦ Alternatives to I.S.
 - ♦ Power Supply
 - ♦ 24Vdc
 - ♦ 115/230Vac
- ♦ Outdoor & Noisier Apps
- ♦ More expensive
- ♦ No power limitation,
 - ♦ Louder and brighter
- ♦ Combination Units Available

LED PANEL LAMPS DUST & GAS CERTIFIED



- ♦ Intrinsically Safe
- ♦ Red, Amber, Green, Blue & White
- ♦ BA390 – Constant 20mA
- ♦ BA390S – Low Current
- ♦ BA599 – Rear Sealing Kit
- ♦ Dia 22.5mm Cut-Out




- ♦ Oil & Gas Exploration & Production Equipment
- ♦ Upstream and Downstream Processing
- ♦ Mobile and Fixed Installation Equipment
- ♦ Gas Processing and Transportation
- ♦ Control Panels
- ♦ Tank Farms
- ♦ Fire and Gas Alarm Systems
- ♦ and more.....

- Product Range
- Data Sheets
- Installation Manuals
- Certificates
- Downloads
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Home




Loop powered indicators

Since the installation of the first BEKA loop powered indicator in 1984 we have been at the forefront of loop powered indicator development.

BEKA is a friendly privately owned company that designs and manufactures process display instrumentation for use in hazardous and safe areas. Our products are supported by extensive documentation and a team of experienced engineers, please call us and discuss your application.

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