Data Sheet

BA488CF-F
The BA488CF-F Fieldbus Display is an intrinsically safe instrument that can display up to eight fieldbus process variables. Eleven selectable standard screen formats contain one, two, three, four or eight variables, with units of measurement, tag descriptions and bargraphs on some screens.

Selectable function blocks allow the BA488CF-F fieldbus display to be used with all common system hosts. Configuration files may be downloaded from the Foundation fieldbus or the BEKA websites.

Powered by the fieldbus, the BA488CF-F only requires a 2-wire connection, no additional power supply Zener barriers or galvanic isolators are required. The high contrast 86 x 45mm liquid crystal display incorporates a green backlight that is also powered from the fieldbus enabling the display to be read in all lighting conditions from full sunlight to total darkness.

Simple commissioning results from the use of standard display formats. Apart from loading the BA488CF-F configuration files onto the system host and selecting the fieldbus variables to be displayed, no programming is required. Configuration of the BA488CF-F Fieldbus Display is performed via the fieldbus and the instrument front panel push buttons.

ATEX, FM & IECEx intrinsic safety certification allows the BA488CF-F to be installed in gas hazardous areas worldwide. The two fieldbus terminals comply with the Fieldbus Intrinsic Safety Concept (FISCO) simplifying system design and documentation, although connection to non-FISCO intrinsically safe segments is possible using the entity concept. This allows a BA488CF-F to be directly connected to almost any hazardous fieldbus providing the segment can supply the 25mA consumed by the display.

Six optional local alarm outputs may be linked to any of the displayed variables. Each isolated single pole solid state output may be conditioned as a combined high and low alarm, or as just a high or low alarm. All the outputs comply with the requirements for simple apparatus allowing them to switch any certified intrinsically safe load such as a sounder, lamp or solenoid valve. Alarm configuration and the alarm set point adjustment is performed via the BA488CF-F front panel push buttons, as the local alarms are not accessible from the fieldbus system host.

Comprehensive documentation includes a Foundation™ fieldbus Interface Guide.

For field mounting applications see the BA484DF-F datasheet. This instrument has a similar electrical specification but is housed in a robust IP66 GRP enclosure suitable for external mounting.
**SPECIFICATION**

**DIMENSIONS (mm)**

**TERMINAL CONNECTIONS**

**HOW TO ORDER**

**Display**

- **Type**: 120 x 64 pixel liquid crystal
- **Size**: 86.5mm x 45mm
- **Backlight**: Powered from fieldbus

**Screen**

- **Standard format**: 1, 2, 3, 4 or 8 variables plus bargraph can include:
  - units of measurement
  - tag information

**Controls**

- **Front panel**: Six push buttons scroll the indicator display between screens when the BA488CF-F is configured to display more variables than fit onto a single screen. Also used to configure optional local alarms.

**Fieldbus communication**

- **Voltage**: 9 to 32V (Limited by intrinsic safety parameters)
- **Current**: 25mA
- **Compliant with**: EC61158-2 31.25kbits/s Voltage Mode
- **Protocol**: Foundation™ fieldbus

**Intrinsic safety**

- **Europe ATEX**
  - **Code**: Group II Category 1G Ex ia IIC T5 Ga
  - **Cert. No.**: ITS04ATEX22779X
  - **Special condition only apply for installations in Zone 0**

**USA FM**

- **Standard**: 3610 Entity
  - **Code**: CL I: Div 1: GP A, B, C & D
  - **File No**: 3023546

**International IECEx**

- **Code**: 10.2833X

**Environmental**

- **Operating temp**: -20 to 60°C (certified for use at -40°C)
- **Storage temp**: -40 to 85°C
- **Humidity**: To 95% @ 40°C
- **Foundation™ fieldbus**: May be downloaded from www.beka.co.uk

**Mechanical**

- **Terminals**: Removable with screw clamp for 0.5 to 1.5mm² cable.
- **Weight**: 0.7kg

**Accessories**

- **Alarms**: Six galvanically isolated outputs which may be linked to displayed variables. Each alarm is configurable from instrument push buttons as:
  - combined high and low alarm
  - high or low alarm

**Recommended panel cut-out**

**Dimensions (mm)**

- **Panel cut-out**: DIN 43 750
  - 138.0 x 10.0 + 0.5 x 68.0 x 0.71 - 0.0
  - To achieve an IP66 seal between the instrument and the panel
  - 136.0 x 10.0 x 68.0 x 0.71 - 0.0
  - Four panel mounting clips must be used.

**This instrument can display one of eleven standard screens**

**Terminal connections**

- **Contacts**: Isolated single pole solid state switch certified as simple apparatus.
  - Ron less than 50 = 0.7V
  - Roff greater than 1MΩ
- **Intrinsic safety parameters**: U = 28Vdc
  - Ii = 200mA
  - Pi = 0.84W
- **Tag number**: Thermally printed strip on rear of instrument.

**Foundation™ fieldbus interface guide**

May be downloaded from www.beka.co.uk

**How to order**

- **Model number**: Please specify
- **Accessories**: Please specify if required
- **Certification**: INMETRO
- **Tag strip**: Legend

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