

**The BA688CF-F Fieldbus Display** is a general purpose 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 BA688CF-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 BA688CF-F only requires a 2-wire connection, no additional power supply is 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 BA688CF-F configuration files onto the system host and selecting the fieldbus variables to be displayed, no programming is required. Configuration of the BA688CF-F Fieldbus Display is performed via the fieldbus and the

instrument front panel push buttons; simple menus enable the required standard display format to be selected and the units of measurement and tag information for each variable to be entered.

**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. Each output can switch any low power load such as a sounder, lamp or solenoid valve. Alarm configuration and the alarm set point adjustment is performed via the BA688CF-F front panel push buttons, as the local alarms are not accessible from the fieldbus system host.

**Comprehensive documentation** includes FOUNDATION™ fieldbus Interface Guide.

**For field mounting applications** see the BA684DF-F datasheet. This instrument has a similar electrical specification but is housed in a robust IP66 GRP enclosure suitable for external mounting.

**If flammable atmospheres are present**, the intrinsically safe BA488CF-F fieldbus display should be used.

# BA688CF-F

## FOUNDATION™

### fieldbus

### Fieldbus display

### 8 variables

### General purpose

◆ FOUNDATION™ fieldbus protocol, ITK 6.3 compliant.

◆ Compatible with most system hosts.

◆ High contrast display with backlight.

◆ Six optional local alarm outputs.

◆ IP66 front panel

◆ 3 year guarantee

# BEKA

## associates

Sales & Support Distributor:-  
Stockshed Limited. Stoneycroft House,  
Mud Lane, Eversley.  
Hampshire.  
RG27 0QS. U.K. Tel. (0118) 9734955  
e-mail info@stockshed.com

## SPECIFICATION

### Display

|                 |   |
|-----------------|---|
| Type            | 120 x 64 pixel liquid crystal   |
| Size            | 86.5mm x 45mm   |
| Backlight       | Powered from fieldbus   |
| Screens         |   |
| Standard format | 1, 2, 3, 4 or eight variables plus bargraph can include:<br>units of measurement<br>tag information |

### Controls

|             |   |
|-------------|---|
| Front panel | Six push buttons scroll the indicator display between screens when the BA688CF-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  |
| Current                 | 25mA  |
| Compliant with Protocol | IEC61158-2 Clauses 11 and 22<br>FOUNDATION™ fieldbus, ITK 6.3 compliant |
| Function blocks         |   |
| FOUNDATION fieldbus™    | 1 x MAO (Multiple Analogue Output)<br>or 2 x IS (Input Selector)        |
|                         | Selectable on-site  |

### Environmental

|                |   |
|----------------|---|
| Operating temp | -20 to 60°C                             |
| Storage temp   | -40 to 85°C                             |
| Humidity       | To 95% @ 40°C                           |
| Enclosure      | Front IP66, rear IP20                   |
| EMC            | Complies with EMC Directive 2014/30/EU. |

### Mechanical

|           |   |
|-----------|---|
| Terminals | Removable with screw clamp for 0.5 to 1.5mm <sup>2</sup> cable. |
| Weight    | 0.7kg   |

### Accessories

|        |  |
|--------|--|
| Alarms | Six galvanically isolated outputs which may be linked to displayed variables.<br>Each alarm is configurable from instrument push buttons as:<br>combined high and low alarm<br>high or low alarm<br><b>Note:</b> Alarms are not accessible from the fieldbus system host |
|--------|--|

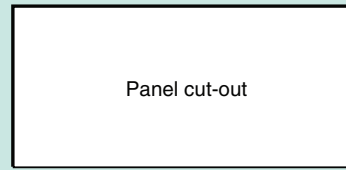
Contacts Isolated single pole solid state switch.

|                  |                     |
|------------------|---------------------|
| Ron              | less than 5Ω + 0.7V |
| Roff             | greater than 1MΩ    |
| Vmax             | = 30V dc            |
| I <sub>max</sub> | = 200mA             |

Tag number Thermally printed strip on rear of instrument.

FOUNDATION™ fieldbus interface guide. May be downloaded from [www.beka.co.uk](http://www.beka.co.uk)

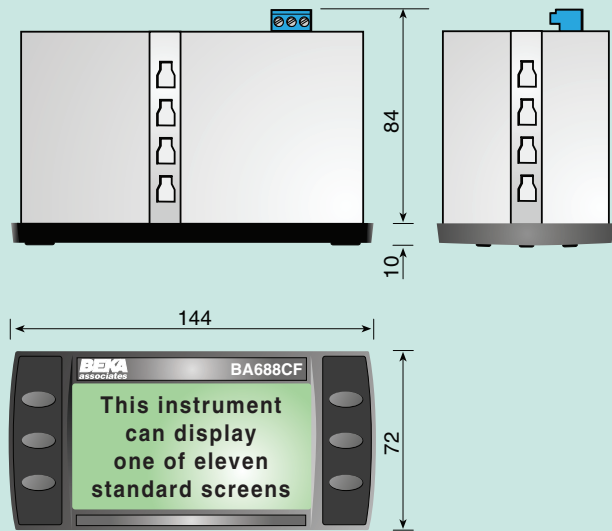
## DIMENSIONS (mm)



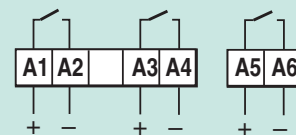
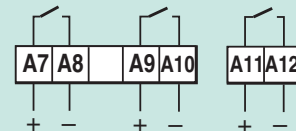
### Recommended panel cut-out

To achieve an IP66 seal between the instrument and the panel 136.0 +0.5/-0.0 x 66.2 +0.5/-0.0 Four panel mounting clips must be used

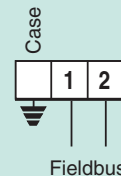
DIN 43 700  
138.0 +1.0/-0.0 x 68.0 +0.7/-0.0



## TERMINAL CONNECTIONS



Optional local alarm outputs



## HOW TO ORDER

|                    |                                    |
|--------------------|------------------------------------|
| Model number       | <b>Please specify</b><br>BA688CF-F |
| <b>Accessories</b> | <b>Please specify if required</b>  |
| Six alarms         | Alarms                             |
| Tag strip          | Legend                             |