

Now with Node  
& Listener modes

# BA648CF-F FOUNDATION™ fieldbus Fieldbus Indicator 8 variables

## General purpose

- ◆ Large 5 digit display with bargraph.
- ◆ FOUNDATION™ fieldbus protocol.
- ◆ Displays up to 8 fieldbus variables.
- ◆ Selectable Node or Listener modes.
- ◆ 144 x 72mm DIN enclosure.
- ◆ IP66 front
- ◆ 3 year guarantee

The BA648CF-F Fieldbus Indicator is a general purpose instrument that can display up to eight fieldbus process variables. A numeric annunciator on the left hand side of the screen shows which variable is being displayed. This version of the instrument supports FOUNDATION™ fieldbus protocol; for PROFIBUS PA systems an alternative version is available - please see the BA648CF-P PROFIBUS datasheet.

**Configuration as a fieldbus Node or Listener** allows the indicator to be tailored to suit local requirements. As a FOUNDATION™ fieldbus Node the indicator is configured by the fieldbus host and the displayed variable is selected from the eight pre-configured fieldbus variables using the indicator's push buttons. When configured as a Listener, the indicator is not visible to the fieldbus host; may not be subject to a Node Licence Fee and is configured and controlled by the indicator's push-buttons.

The liquid crystal display has large 20mm high digits providing maximum contrast and a wide viewing angle, allowing the BA648CF-F indicator to be read easily in most lighting conditions. The five digits, with four decimal points and a negative sign, may be configured to display any variable between -99999 and 99999. The 31 segment bargraph, which

provides a bold analogue indication of the fieldbus variable, may be conditioned to any starting or finishing values within the fieldbus variable's range.

The instrument front panel provides IP66 protection and a neoprene gasket seals the joint between the fieldbus indicator and the panel, making it suitable for use in areas that will be cleaned with a hose. To simplify installation and maintenance, the indicator has a removable terminal block that allows panel wiring to be completed before the BA648CF-F indicator is installed.

**Units of measurement** can be marked onto the display escutcheon prior to despatch and the tag number or application thermally printed onto the rear panel adjacent to the terminals.

**For field mounting applications** see the BA644DF-F FOUNDATION™ fieldbus datasheet. This instrument has a similar electrical specification but is housed in an IP66 field mounting enclosure.

**For use in hazardous areas** the intrinsically safe BA448CF-F FOUNDATION™ fieldbus indicator is available. This is similar to the BA648CF-F FOUNDATION™ fieldbus indicator but has international certifications allowing installation in most gas and dust hazardous areas.

[www.beka.co.uk/ba648cf-f](http://www.beka.co.uk/ba648cf-f)

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## SPECIFICATION

### Display

Type Liquid crystal  
5 digit 20mm high  
(-99999 to 99999)  
31 segment bargraph

Variables 8

### Fieldbus communication

Voltage 9 to 32V

Current 13mA.

Compliant with IEC61158

Protocol FOUNDATION™ fieldbus

Function blocks 2 x IS (input selector)  
6 x DI (digital input)

Function Fieldbus Node or Listener  
selected by front panel push  
buttons.

### Environmental

Operating temp -20 to 70°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

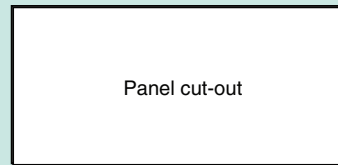
### Accessories

Scale legend Units of measurement marked  
onto display escutcheon.

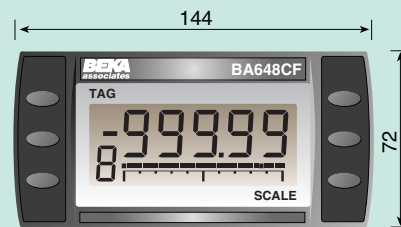
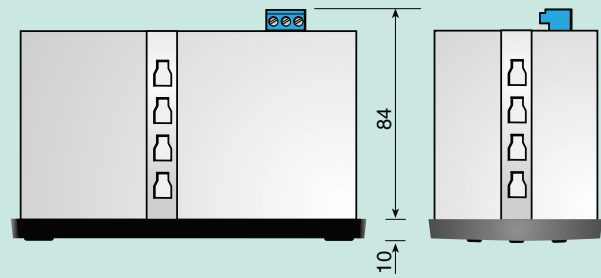
Tag legend Tag number or application  
marked onto display  
escutcheon.

Tag strip Tag number or application  
thermally printed onto rear of  
the instrument.

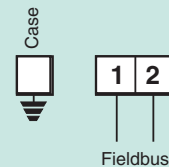
## DIMENSIONS (mm)



**Recommended panel cut-out**  
To achieve an IP65 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



Non polarised

## HOW TO ORDER

### Please specify

Model number BA648CF-F FOUNDATION™  
fieldbus

### Accessories Please specify if required

Escutcheon markings

Scale Legend

Tag Legend

Tag strip Legend