

The BA418CF-F Fieldbus Indicator is a cost-effective intrinsically safe panel mounting instrument that displays a single fieldbus process variable in a hazardous area. Housed in a robust panel mounting enclosure with an IP66 front, the instrument has a large, high contrast five digit display and a horizontal bargraph. The BA418CF-F indicator uses the same technology and compliments the well established BEKA eight variable fieldbus displays that are now in worldwide use.

**Powered by the fieldbus** the BA418CF-F only requires a 2-wire connection to the intrinsically safe fieldbus segment, no additional power supply is required. Compatibility with most FOUNDATION<sup>™</sup> fieldbus hosts is ensured by the use of a single *Input Selector* function block, which is supported by nearly all systems. Please contact the BEKA sales office for the latest compatibility information. The instrument has been registered by The Fieldbus Foundation and Device Description Files may be downloaded from their web site or from www.beka.co.uk.

The liquid crystal display has large characters and is designed to provide maximum contrast and a wide viewing angle, thus enabling the BA418CF-F indicator to be easily read in most lighting conditions. Five digits, with four decimal points and a negative sign, may be configured to display any value between -99999 and 99999. The 31 segment horizontal bargraph, which provides a bold analogue indication of the fieldbus variable, may be conditioned to any starting and finishing values within the range of the fieldbus variable.

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 BA418CF-F indicator is installed.

ATEX intrinsic safety certification allows the BA418CF-F to be installed in all gas hazardous areas. The two fieldbus terminals comply with the Fieldbus Intrinsic Safety Concept (FISCO) simplifying system design and documentation. Separate Ex ia and Ex ic entity input safety parameters also allow connection to most non-FISCO intrinsically safe systems. A BA418CF-F indicator may therefore be connected to almost any intrinsically safe fieldbus segment, provided the segment can supply 13mA to power the instrument.

**FM, cFM and IECEx approvals** allow installation in the USA, Canada, plus the growing number of countries accepting IECEx certificates. All approvals incorporate FISCO certification.

The FOUNDATION<sup>™</sup> fieldbus Interface Guide contains commissioning information for the BA418CF-F indicator. A copy may be requested from the BEKA sales office or from the BEKA web site at www.beka.co.uk

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

For field mounting applications see the BA414DF-F datasheet. This instrument has a similar electrical specification but is housed in an IP66 field mounting enclosure.

## BA418CF-F FOUNDATION™ fieldbus Fieldbus indicator Single variable

# Intrinsically safe for use in all gas hazardous areas

- 20mm high easy to read
  5 digit display.
- 31 segment bargraph
- FOUNDATION<sup>™</sup> fieldbus protocol.
- Compatible with most system hosts.
- Intrinsically safe ATEX, FM, cFM, INMETRO & IECEx certification.
- Entity Ex ia & Ex ic parameters, FISCO compliant.
- 144 x 72mm
  DIN enclosure.
- IP66 front
- 3 year guarantee

#### www.beka.co.uk/ba418cf-f

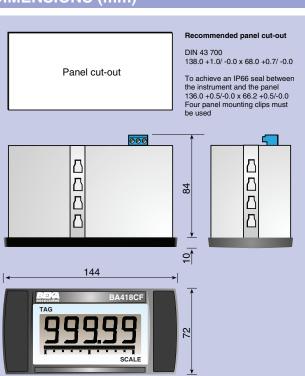


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#### SPECIFICATION

#### **DIMENSIONS** (mm)

SPECIFICATIO	JN			DIMEN
<b>Display</b> Type	Liquid crystal 5 digit 20mm high (-99999 to 99999)			
Variables	31 segment bargraph Single			
Fieldbus communicat Voltage		ed by intrinsic sa	afety	
Current Compliant with Protocol Function block	13mA IEC61158-2 31.25kbits/s Voltage Mode Foundation™ fieldbus 1 x IS (input selector)			
Intrinsic safety Europe ATEX Code	FISCO field de	ory 1G Ex ia IIC vice Ex ia IIC T4 ory 3G Ex ic IIC 70°C	l Ga	
Input parameters	FISCOUi17.5VIi380mAPi5.32W	<b>Ex ia entity</b> 22.0V 250mA 1.2W	Ex ic entity 32V 125mA 1W	T.
Location	Zone 0, 1 or 2			
Cert. No.	ITS06ATEX25314X			TEDAU
USA FM Standard Code	3610 Entity CL I: Div 1 GP A, B, C & D T4 @ 70°C	)		TERMI
Standard Code	3611 Nonincendive CL I: Div 2 GP A, B, C & D T4 @ 70°C			Accessories
File	3027031			Scale leg
Canada cFM File	3027031C			Tag leger
International IECE Code Cert. No	x As ATEX code IECEx ITS 06 (			Tag strip
Brazil INMETRO	NCC 12.0873X			FOUNDA Fieldbus guide.
Environmental Operating temp	-20 to 70°C (ATEX, FM & IECEx certification -40°C to 70°C)		HOW T	
Storage temp Humidity Enclosure EMC	-40 to 85°C To 95% @ 40° Front IP66, rea In accordance	r IP20		Model numb
	Directive 2004/			Certification Escutcheon Scale
Maahamiaal	Removable with screw clamp for 0.5 to 1.5mm <sup>2</sup> cable.			Scalo
Mechanical Terminals	Removable with 1.5mm <sup>2</sup> cable.	h screw clamp f	or 0.5 to	Tag



### INAL CONNECTIONS



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 instrument	
FOUNDATION ™ Fieldbus interface guide.	May be downloaded from www.beka.co.uk	
HOW TO ORDER		

Please specify

BA418CF-F

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es n n markings Please specify if required INMETRO

Legend Legend

Legend