

The BA484DF-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 BA484DF-F fieldbus display to be used with all common system hosts. Configuration files may be downloaded from the Fieldbus Foundation or the BEKA websites

**Powered by the fieldbus** the BA484DF-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 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 BA484DF-F configuration files onto the system host and selecting the fieldbus variables to be displayed, no programming is required. Configuration of the BA484DF-F Fieldbus Display is performed via the fieldbus and the instrument front panel push buttons. ATEX, FM and IECEx intrinsic safety certification allows the BA484DF-F to be installed in gas and dust hazardous areas. The two fieldbus terminals comply with the Fieldbus Intrinsic Safety Concept (FISCO) simplifying system design and documentation, although connection to non-FISCO intrinsically safe systems is possible using the entity concept.

This allows a BA484DF-F display to be directly connected to almost any hazardous fieldbus segment, provided that 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 BA484DF-F front panel push buttons, as the local alarms are not accessible from the fieldbus system host.

**Comprehensive documentation** includes a FOUNDATION<sup>™</sup> fieldbus Interface Guide.

**For panel mounting applications** see the BA488CF-F datasheet. This instrument has a similar electrical specification but is housed in a 144 x 72 panel mounting enclosure.

## BA484DF-F

## FOUNDATION<sup>™</sup> fieldbus Fieldbus Indicator 8 variables

Intrinsically safe for use in gas and dust hazardous areas

- FOUNDATION<sup>™</sup> fieldbus protocol
- Compatible with most system hosts
- High contrast display with backlight
- Intrinsically safe ATEX gas or ATEX gas & dust or FM & ATEX gas
   All models have IECEx certification
   FISCO compliant
- Six optional local alarm outputs
- IP66 field mounting GRP enclosure
- 3 year guarantee



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## SPECIFICATION

## DIMENSIONS (mm)

	<b>N</b>	DIMENSIONS	
Display			
Туре	120 x 64 pixel liquid crystal	1	
Size	86.5mm x 45mm	<b>–</b> 141	<b>&gt;</b>
Backlight	Powered from fieldbus	I	
Screens		1 0	Ø
Standard format	1, 2, 3, 4 or 8 variables plus bargraph can include:		
	units of measurement	This instrume	
	tag information	can display	
Controls		one of eleve standard scre	
Front panel	Four push buttons scroll the indicator display	stalldald scle	
	between screens when the BA484DF-F is		
	configured to display more variables than fit onto	S12	E
	a single screen. Also used to configure optional		
	local alarms.		0 Q 🗼
Fieldbus communication Voltage	9 to 32V (Limited by intrinsic safety parameters)	0	0
Current	25mA		
Compliant with	IEC61158–2		
·	Clauses 11 and 22	<b>Y</b>	
Protocol	FOUNDATION <sup>™</sup> fieldbus		< <u>−−−−</u>
Function blocks			I I I I
	1 x MAO (Multiple Analogue Output) Selectable		Two M6 clearance holes for surface
or	2 x IS (Input Selector) <i>on-site</i>	1	mounting
Intrinsic safety			
Europe ATEX		6 0 0	
Code	Group II Category 1G,		Three cable entries
	Ex ia IIC T4		ATEX version: M20 x 1.5 tapped
	Tamb = -40 to $60^{\circ}$ C Dust option,		FM version: 22.25 Ø plain hole
or	Group II Category 1GD, T125°C IP66		
Cort No.	Ex ia IIC T4 Tamb = -20 to $60^{\circ}$ C How to order		
Cert. No.	ITS04ATEX22778		
Intrinsic safety	Ui = 17.5V	<b>TERMINAL CO</b>	
parameters	i - 380mA  FISCO		
·	Pi = 5.32W compliant		
		2	1    A6   A5    A4   A3    A2   A1
Location	Gas Zone 0, 1 or 2: Dust Zone 20, 21 or 22		┯┛╘┯┷┯┛╘┯┷┯┛╘┯┷┯┛
USA FM	Option, see How to order	Field	bus – + – + – +
Standard	3610 Entity		
Code	CL I, II, III: Div 1: GP A, B, C, D, E, F & G		Optional local alarm outputs
	T4 @ 60°C		
File	3022546	Q	
- · · ·		Case	
Standard	3611 Nonincendive		
Code	CL I: Div 2: GP A, B, C & D, T4 @ 60°C CL II, III: Div 2: GP F & G, T4 @ 60°C		A12 A11 A10 A9 A8 A7
File	3022546		╤┛└┯┵┯╝└┯┷┯╝
1110	0022040	-	
International IECEx			- + - + - +
International IECEx Standard	IEC60079-11:1999		
Standard Code	Ex ia IIC T4 Ta = -40 to $60^{\circ}$ C		- + - + - + Optional alarm outputs
Standard Code	Ex ia IIC T4 Ta = -40 to $60^{\circ}$ C Ex ia IIC T4 DIP A21 TA 125°C IP66 Dust option,		
Standard Code or	Ex ia IIC T4 Ta = -40 to 60°C Ex ia IIC T4 DIP A21 TA 125°C IP66 Ta = -20 to 60°C How to order	Tag strip	
Standard Code	Ex ia IIC T4 Ta = -40 to $60^{\circ}$ C Ex ia IIC T4 DIP A21 TA 125°C IP66 Ta = -20 to $60^{\circ}$ C	<b>U</b> .	Optional alarm outputs Printed legend behind the display window
Standard Code or Cert. No	Ex ia IIC T4 Ta = -40 to 60°C Ex ia IIC T4 DIP A21 TA 125°C IP66 Ta = -20 to 60°C How to order	Tag strip Tag plate	Optional alarm outputs Printed legend behind the display window Engraved stainless steel plate attached to the side
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Standard Code or Cert. No Environmental Operating temp Storage temp Humidity	Ex ia IIC T4 Ta = -40 to $60^{\circ}$ C Ex ia IIC T4 DIP A21 TA 125°C IP66 Ta = -20 to $60^{\circ}$ C IECEx ITS 05.0006 -20 to $60^{\circ}$ C (ATEX gas certification -40 to $60^{\circ}$ C) -40 to $85^{\circ}$ C To 95% @ 40°C	<b>U</b> .	Optional alarm outputs Printed legend behind the display window Engraved stainless steel plate attached to the side
Standard Code or Cert. No Environmental Operating temp Storage temp Humidity Enclosure	Ex ia IIC T4 Ta = -40 to $60^{\circ}$ C Ex ia IIC T4 DIP A21 TA 125°C IP66 Ta = -20 to $60^{\circ}$ C IECEX ITS 05.0006 -20 to $60^{\circ}$ C (ATEX gas certification -40 to $60^{\circ}$ C) -40 to $85^{\circ}$ C TO $95\% @ 40^{\circ}$ C IP66	Tag plate	Optional alarm outputs Printed legend behind the display window Engraved stainless steel plate attached to the side of the instrument.
Standard Code or Cert. No Environmental Operating temp Storage temp Humidity Enclosure EMC	Ex ia IIC T4 Ta = -40 to 60°C Ex ia IIC T4 DIP A21 TA 125°C IP66 Ta = -20 to 60°C IECEx ITS 05.0006 -20 to 60°C (ATEX gas certification -40 to 60°C) -40 to 85°C To 95% @ 40°C IP66 In accordance with EU Directive 2004/108/EC	Tag plate Pipe mounting kit	Optional alarm outputs Printed legend behind the display window Engraved stainless steel plate attached to the side of the instrument. BA392D or BA393
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