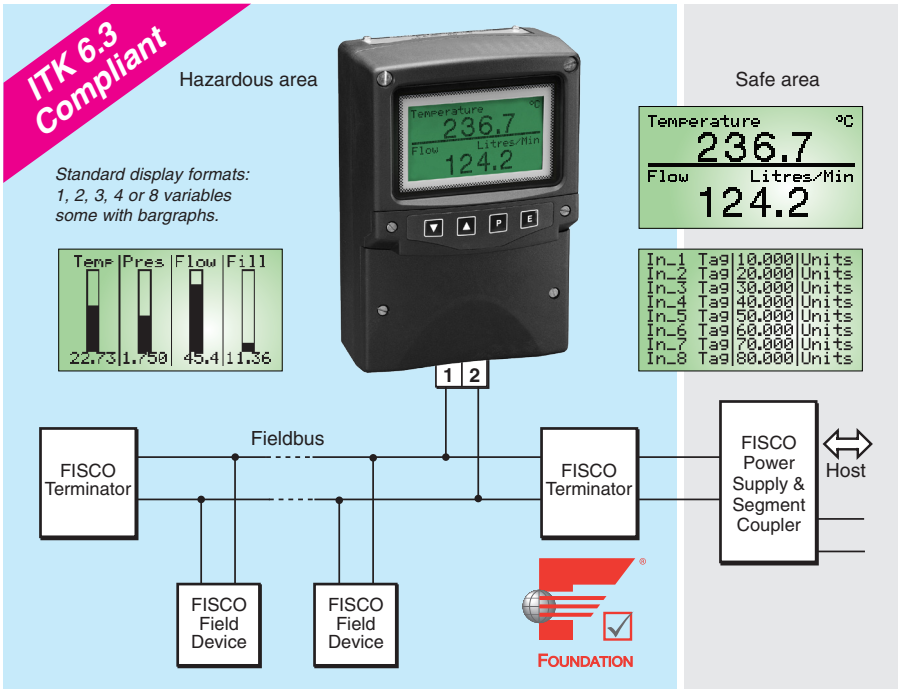

The BA484DF-F Fieldbus Display is an intrinsically safe instrument that can display up to eight fieldbus process variables. Eleven selectable standard screen formats contain one, two, three, four or eight variables, with units of measurement, tag descriptions and bargraphs on some screens.

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.

Comprehensive documentation includes a FOUNDATION™ fieldbus Interface Guide.

International intrinsic safety certification allows the BA484DF-F to be installed in gas and dust 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 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.

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™ fieldbus Fieldbus display 8 variables

Intrinsically safe for use in gas and dust hazardous areas

- **FOUNDATION™ fieldbus protocol, ITK 6.3 compliant.**
- **Compatible with most system hosts.**
- **High contrast display with backlight.**
- **Intrinsically safe**
- **FISCO compliant**
- **Six optional local alarm outputs.**
- **IP66 field mounting GRP enclosure.**
- **3 year guarantee**

www.beka.co.uk/ba484df-f

BEKA associates

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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 8 variables plus bargraph can include: units of measurement tag information

Controls

Front panel	Four push buttons scroll the indicator display between screens when the BA484DF-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	IEC61158-2 31.25kbits/s Voltage Mode	
Protocol	FOUNDATION™ fieldbus, ITK 6.3 compliant	
Function blocks		
FOUNDATION™ fieldbus	1 x MAO (Multiple Analogue Output)	*Selectable on-site*
or	2 x IS (Input Selector)	

Intrinsic safety

International IECEx

Code	Ex ia IIC T5 Ga (Tamb = -40 to 60°C)	
or	Ex ia IIIC T80°C Db (Tamb = -40 to 60°C) IP66	*Dust option, see How to order*
Cert. No	IECEx ITS 05.0006	

Europe ATEX and UKEX

Code	Group II Category 1G Ex ia IIC T5 Ga (Tamb = -40 to 60°C)	
or	Group II Category 2D Ex ia IIIC T80°C Db (Tamb = -40 to 60°C) IP66	*Dust option, see How to order*
Cert. Nos.	ITS04ATEX22778 & ITS21UKEX0082	
Intrinsic safety parameters	Ui = 17.5V Ii = 380mA Pi = 5.32W	FISCO compliant
Location	Gas Zone 0, 1 or 2: Dust Zone 21 or 22	

USA FM *Option, see How to order*

Standard	3610 Entity
Code	CL I, II, III: Div 1: GP A, B, C, D, E, F & G T4 @ 60°C
File	3022546
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
File	3022546

Environmental

Operating temp	-20 to 60°C (ATEX gas certification -40 to 60°C)
Storage temp	-40 to 85°C
Humidity	To 95% @ 40°C
Enclosure	IP66
EMC	Complies with EU and UK Directives

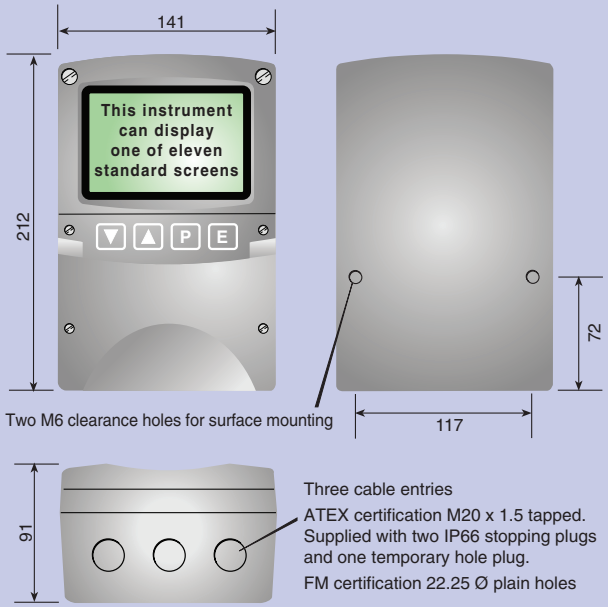
Mechanical

Terminals	Screw clamp for 0.5 to 1.5mm^2 cable.
Weight	1.6kg

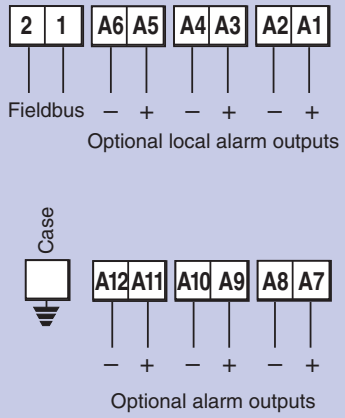
Accessories

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 ***Note:*** *Alarms are not accessible from the fieldbus system host*

DIMENSIONS (mm)



TERMINAL CONNECTIONS



Contacts	Isolated single pole solid state switch certified as simple apparatus. Ron less than 5Ω + 0.7V Roff greater than 1MΩ
Intrinsic safety parameters	Ui = 28Vdc Ii = 200mA Pi = 0.84W
Tag strip	Printed legend behind the display window
Tag plate	Engraved stainless steel plate attached to the side of the instrument.
Pipe mounting kit	BA392D or BA393
Interface guide	May be downloaded from www.beka.co.uk

HOW TO ORDER

	Please specify	
Model number	BA484DF-F	*All models have IECEx certification.* ***Note:*** *Cable entries differ for FM & ATEX models*
Certification	ATEX & UKEX gas	
or	ATEX & UKEX gas & dust	
or	ATEX, UKEX & FM gas	

Accessories	**Please specify if required**
Six alarms	Alarms
Tag strip	Tag strip legend
Tag plate	Tag plate legend
Pipe mounting kit	BA392D or BA393