

The BA488CF-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 BA488CF-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 BA488CF-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 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 BA488CF-F configuration files onto the system host and selecting the fieldbus variables to be displayed, no programming is required. Configuration of the BA488CF-F Fieldbus Display is performed via the fieldbus and the instrument front panel push buttons. International intrinsic safety certification allows the BA488CF-F to be installed in gas 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 segments is possible using the entity concept. This allows a BA488CF-F to be directly connected to almost any hazardous fieldbus providing 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 BA488CF-F front panel push buttons, as the local alarms are not accessible from the fieldbus system host.

Comprehensive documentation includes a FOUNDATION[™] fieldbus Interface Guide.

For field mounting applications see the BA484DF-F datasheet. This instrument has a similar electrical specification but is housed in a robust IP66 GRP enclosure suitable for external mounting.

BA488CF-F FOUNDATION™ fieldbus Fieldbus display 8 variables

Intrinsically safe for use in all gas hazardous areas

- FOUNDATION[™] fieldbus protocol, ITK 6 compliant.
- Compatible with most system hosts.
- High contrast display with backlight.
- Intrinsically safe
- FISCO compliant
- Six optional local alarm outputs.
- IP66 front panel
- 3 year guarantee

www.beka.co.uk/ba488cf-f



website: www.beka.co.uk

SPECIFICATION

DIMENSIONS (mm)

Display Type Size Backlight Screens Standard format	 120 x 64 pixel liquid crystal 86.5mm x 45mm Powered from fieldbus 1, 2, 3, 4 or 8 variables plus bargraph can include: units of measurement tag information Six push buttons scroll the indicator display between screens when the BA488CF-F is configured to display more variables than fit onto a single screen. Also used to configure optional local alarms. 	Panel cut-ou	Hecommended panel cut-out To achieve an IP66 seal between the instrument and the panel 136.0 +0.5'-0.0 × 66.2 +0.5'-0.0 Four panel mounting clips must be used DIN 43 700 138.0 +1.0' -0.0 × 68.0 +0.7/ -0.0
Fieldbus communication Voltage Current Compliant with Protocol Function blocks FOUNDATION fieldbus TM	9 to 32V (Limited by intrinsic safety parameters) 25mA EC61158-2 31.25kbits/s Voltage Mode FOUNDATION [™] fieldbus, ITK 6.3 compliant 1 x MAO (Multiple Analogue Output) Selectable r 2 x IS (Input Selector) Selectable		
Intrinsic safety Europe ATEX and UK UK Code Cert. No.s Intrinsic safety parameters	CA Group II Category 1G Ex ia IIC T5 Ga (Tamb = -40°C to 60°C) ITS04ATEX22779X ITS21UKEX0083X Special condition only apply for installations in Zone 0 Ui = 17.5V Ii = 380mA Pi = 5.32W FISCO compliant	this instrum can displa one of elev standard scre	A488CF
Location	Zone 0, 1 or 2	TERMINAL CON	NECTIONS
USA FM Standard Code File No Standard Code File No International IECEx Code Cert. No.	3610 Entity CL I; Div 1; GP A, B, C & D T4 @ 60°C 3022546 3611 Nonincendive CL I; Div 2; GP A, B, C & D T4 @ 60°C 3022546 Group II Category 1G Ex ia IIC T5 Ga (Tamb = -40°C to 60°C) IECEx ITS 05.0007X Special condition only apply for installations in Zone 0 As IECEx - see certificate	A7 A8 + - A1 A2 + -	$\begin{array}{c} A9 A10 \\ A11 A12 \\ + - + - \\ A3 A4 \\ + - + - \\ 1 \text{ local alarm outputs} \\ \\ \hline $
India CCOE/PESO	As ATEX - see certificate		 Fieldbus
Environmental Operating temp Storage temp Humidity Enclosure EMC Mechanical Terminals Weight	-20 to 60°C (certified for use at -40°C) -40 to 85°C To 95% @ 40°C Front IP66, rear IP20 Complies with EU and UK Directives Removable with screw clamp for 0.5 to 1.5mm ² cable. 0.7kg	Contacts Intrinsic safety parameters Tag number Interface guide	Isolated single pole solid state switch certified as simple apparatus. Ron less than $5\Omega + 0.7V$ Roff greater than $1M\Omega$ Ui = 28Vdc Ii = 200mA Pi = 0.84W Thermally printed strip on rear of instrument. May be downloaded from www.beka.co.uk
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	HOW TO ORDER Model number Accessories Six alarms Tag strip	Please specify BA488CF-F Please specify if required Alarms Legend