Now with Node & Listener modes

BA644DF-F

FOUNDATION™ fieldbus
Fieldbus indicator
8 variables

General purpose

◆ **Large 5 digit display with bargraph.**

◆ **FOUNDATION™ fieldbus Listener.**

◆ **Displays up to 8 fieldbus variables.**

◆ **Selectable Node or Listener modes.**

◆ **IP66 field mounting GRP enclosure.**

◆ **3 year guarantee**

www.beka.co.uk/ba644df-f

The BA644DF-F FOUNDATION™ 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 indicator supports FOUNDATION™ fieldbus protocol; for PROFIBUS PA systems an alternative version is available - please see the BA644DF-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 BA644DF-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 enclosure which is moulded in glass reinforced Polyester (GRP) has stainless steel fittings, silicone gaskets and an armoured glass window. Its robust construction provides IP66 protection which has been independently assessed by Intertek Testing Services. A separate terminal compartment allows the instrument to be installed and terminated without exposing the indicator's electronics. To further simplify wiring and subsequent inspection, the terminal cable entries and clamping screws are forward facing. The indicator may also be mounted onto a vertical or horizontal pipe using one of the accessory kits.

Units of measurement and the instrument's application or tag number can be economically marked onto the display escutcheon prior to despatch or after installation on-site. Alternatively, for customers who prefer a stainless steel label, the indicator can be supplied with a removable blank or custom etched stainless steel plate mounted on the front of the enclosure.

For panel mounting applications see the BA648CF-F FOUNDATION™ fieldbus indicator datasheet. This instrument has a similar electrical specification but is housed in a 144 x 72 panel mounting enclosure.

For use in hazardous areas the intrinsically safe BA444DF-F FOUNDATION™ fieldbus and the Type n BA444NDF-F FOUNDATION™ fieldbus indicators are available. These are similar to the BA644DF-F FOUNDATION™ fieldbus indicator but have international certifications allowing installation in most gas and dust hazardous area.

BEKA associates

SPECIFICATION

Display
Type	Liquid crystal
	5 digit plus sign, 20mm high
	(-99999 to 99999)
	31 segment bargraph
Variables	8

Controls
Front panel	Four push buttons for selecting displayed variable and configuration.

Fieldbus communication
Voltage	9 to 32V
Current	13mA.
Compliant with	IEC61158-2 31.25kbits/s Voltage Mode.
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	IP66
EMC	In accordance with EU Directive 2004/108/EC

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

Accessories
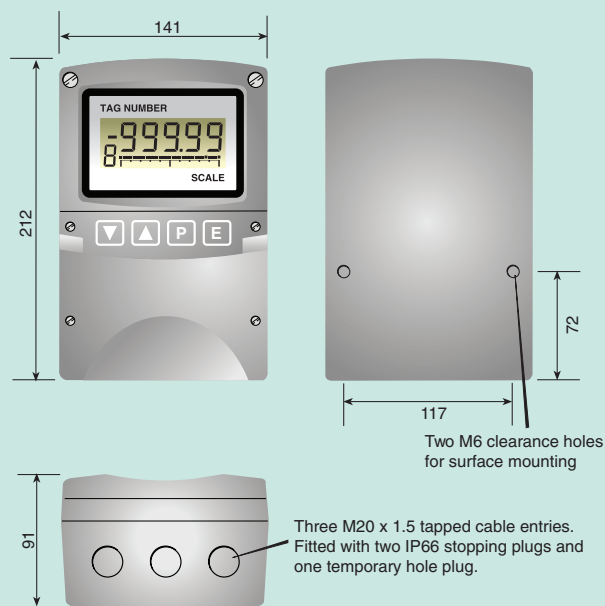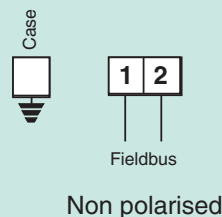|	
Scale legend	Units of measurement marked onto display escutcheon.
Tag legend	Tag number or application marked onto display escutcheon.
Stainless legend plate.	Stainless steel plate etched with tag number or application attached to front of the instrument.
Pipe mounting kit	BA392D or BA393
Interface guide	May be downloaded from www.beka.co.uk

DIMENSIONS (mm)

141

212

SCALE

117

72

Two M6 clearance holes for surface mounting

91

Three M20 x 1.5 tapped cable entries. Fitted with two IP66 stopping plugs and one temporary hole plug.

TERMINAL CONNECTIONS

Case

1 2

Fieldbus

Non polarised

HOW TO ORDER

Please specify

Model number	BA644DF-F FOUNDATION™ fieldbus

Accessories	Please specify if required
Escutcheon markings	
Scale	Scale legend
Tag	Tag legend
Stainless legend plate	Legend
Pipe mounting kit	BA392D or BA393