

The **BA614DF-F Fieldbus Indicator** is a new cost-effective field mounting instrument that displays a single fieldbus variable in a process area. Housed in a robust IP66 GRP enclosure, the instrument has a large, high contrast five digit display, plus a horizontal bargraph. The BA614DF-F indicator uses the same technology and complements the well established BEKA eight variable fieldbus displays that are now in worldwide use.

Powered by the fieldbus the BA614DF-F only requires a 2-wire connection to the fieldbus segment, no additional power supply is required. Compatibility with most FOUNDATION™ 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 which enables the BA614DF-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 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 – report available. A separate terminal compartment allows the instrument to be installed and terminated without exposing the indicator electronics. To further simplify field wiring and subsequent inspection, the terminal cable entries and clamping screws are both forward facing. The indicator may also be mounted onto a vertical or horizontal pipe using one of the accessory kits.

The FOUNDATION™ fieldbus Interface Guide contains commissioning information for the BA614DF-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 and the instrument 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 BA618CF-F datasheet. This instrument is electrically identical to the BA614DF-F but is housed in a 144 x 72 panel mounting enclosure with an IP66 front.

For use in hazardous areas the intrinsically safe BA414DF-F and Type nL BA414NDF-F single variable fieldbus indicators are available. These have similar specifications as the BA614DF-F plus international certification allowing installation in most gas and dust hazardous areas.

BA614DF-F

FOUNDATION™ fieldbus Fieldbus indicator Single variable

General purpose

- ◆ Large easy to read 5 digit display
- ◆ 31 segment bargraph
- ◆ FOUNDATION™ fieldbus protocol
- ◆ Compatible with most system hosts
- ◆ Bus powered, only 13mA consumption
- ◆ IP66 field mounting GRP enclosure
- ◆ 3 year guarantee



BEKA associates

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SPECIFICATION

Display

| | |
|-----------|--|
| Type | Liquid crystal 5 digits plus sign, 20mm high (-99999 to 99999) |
| Variables | 31 segment bargraph Single |

Fieldbus communication

| | |
|----------------|---------------------------------|
| Voltage | 9 to 32V |
| Current | 13mA |
| Compliant with | IEC61158—2 Clauses 11 and 22 |
| Protocol | FOUNDATION™ fieldbus |
| Function block | 1 x IS (input selector) |

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 89/336/EEC BS EN 61326:1998 |
| Immunity | Operates normally with conducted 3Vrms between 0.15kHz and 80MHz radiated 10V/m between 80MHz and 1GHz. |
| Emissions | CISPR16-1/2 Class A |

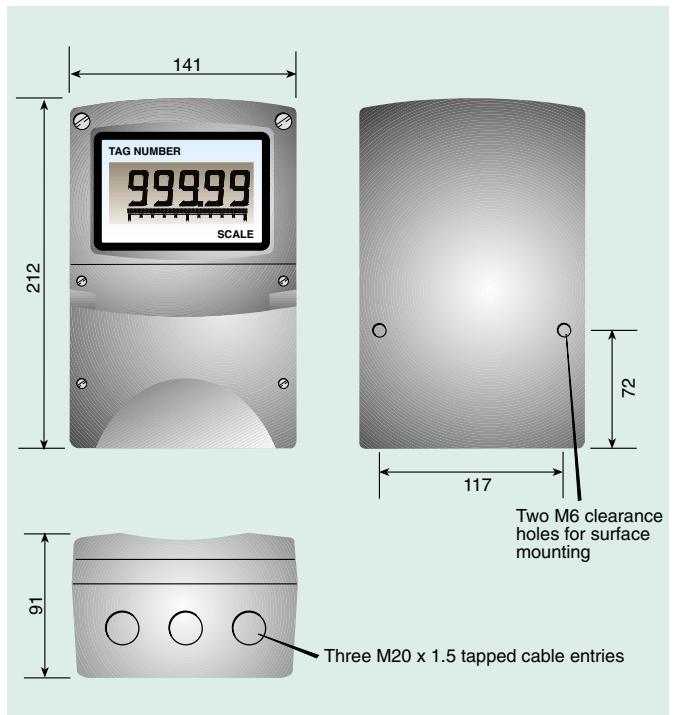
Mechanical

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

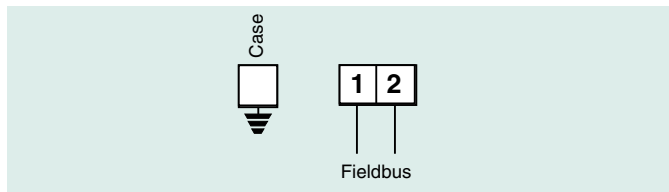
Accessories

| | |
|-----------------------------|--|
| Scale legend | Units of measurement marked onto display escutcheon. |
| Tag legend | Tag number or applicational information marked onto display escutcheon. |
| Stainless legend plate | Stainless steel plate etched with tagging or applicational information secured to the front of the instrument. |
| Pipe mounting kit | BA392D or BA393 |
| Fieldbus interface guide | May be downloaded from www.beka.co.uk |

DIMENSIONS (mm)



TERMINAL CONNECTIONS



HOW TO ORDER

| | |
|------------------------|------------------------------------|
| Model number | Please specify BA614DF-F |
| Accessories | Please specify if required |
| Escutcheon markings | Scale legend |
| Scale | Tag legend |
| Tag | Legend |
| Stainless legend plate | Legend |
| Pipe mounting kit | BA392D or BA393 |