



## SPECIFICATION

<b>Input</b>	
Current	4 to 20mA
Voltage	Less than 1.2V at 20°C Less than 1.3V at -20°C
Overrange	±200mA will not cause damage
<b>Display</b>	
Type	Liquid crystal
Reading rate	
Analogue	4 per second
Digital	2 per second
Analogue	95mm long 100 segment column or single segment.
Range	0 to 100% for 4 to 20mA input
Digital	4½ digit (-19999 to 19999) 5.5mm high; selectable dummy trailing zero extends display range to (-19990 to 99990).
Span	Adjustable between 0 & ±19999
Zero	Adjustable between ±19999 with 4mA input
Decimal point	1 of 5 positions or absent
Polarity	Automatic minus sign
Direction	Display may increase or decrease with increasing current.
Over & underrange	4 least significant digits are blanked
<b>Push-buttons</b> (Function in operating mode)	
☑ button	Shows display with 4mA input
☞ button	Shows display with 20mA input
☒ button	Displays input current in mA, or as a percentage of span.

<b>Accuracy at 20°C</b>	
Analogue	±0.5%
Digital	Linear ±0.02% ±1 digit Root extracting 16µA at input ±1 digit
Temp. effect	
Analogue	±0.5% between -20 & 60°C
Digital	
Zero	Less than 25ppm/°C
Span	Less than 50ppm/°C
Series mode	Less than 0.5% error for 1mA pk to pk 50Hz or 60Hz signal.

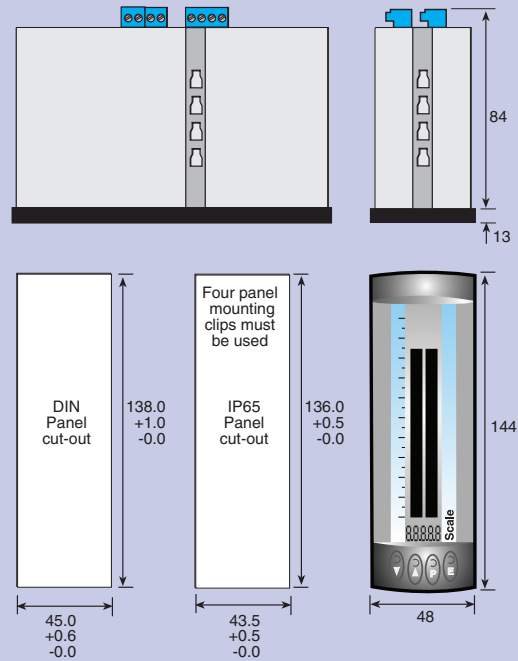
<b>Intrinsic safety</b>	
<b>International IECEx</b>	
Standard	IEC 60079-0:2004
Code	Ex ia IIC T5 Ga Ta = -40 to 60°C
Cert. No.	<a href="#">IECEx ITS 08.0003X</a>
<b>Europe ATEX &amp; UKEX</b>	
Code	Group II Category 1 G Ex ia IIC T5 Ga Ta = -40 to 60°C
Cert. No	<a href="#">ITS99ATEX2009X</a> & <a href="#">ITS21UKEX0101X</a>
Output parameters	
U <sub>o</sub>	1.1V dc
I <sub>o</sub>	70mA dc
P <sub>o</sub>	23mW
	Complies with requirements for <i>simple apparatus</i>
Location	Zone 0, 1 or 2
Installation	The BA326C may be connected to any certified intrinsically safe circuit whose output parameters do not exceed:
	U <sub>o</sub> 28V
	I <sub>o</sub> 200mA
	P <sub>o</sub> 0.84W

<b>Environmental</b>	
Operating temp	-20 to 60°C (Certified for use at -40°C)
Storage temp	-40 to 85°C
Humidity	To 95% at 40°C non-condensing
Enclosure	Front IP65 rear IP20
EMC	In accordance with EU Directive 2004/108/EC, full report available.

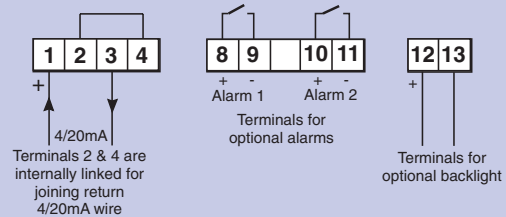
<b>Mechanical</b>	
Terminals	Blue removable terminal block for 0.5 to 1.5mm <sup>2</sup> cables
Weight	0.5kg

<b>Accessories</b>	
Separately powered backlight	LED backlight powered from 28V 300Ω Zener barrier or galvanic isolator.
Alarms	Two independent alarms each of which may be programmed for high or low operation with a NC or NO output.

## DIMENSIONS (mm)



## TERMINAL CONNECTIONS



Outputs	Isolated single pole solid state switch: Ron less than 5Ω +0.6V Roff greater than 180k
Certification	Both outputs comply with the requirements for <i>simple apparatus</i> .
Lineariser	Provides 16 fully adjustable straight lines which may be positioned to compensate for almost any non-linear variable.
Typeset scale card	Blank scale card fitted to each indicator can be supplied typeset with units of measurement.
Bargraph scale	Blank scale fitted to each indicator can be supplied typeset with analogue scale.
Tag number	Thermally printed number on rear of the instrument.

## HOW TO ORDER

Model number	BA326C	
Display mode	Linear or root extracting*	
Digital display		] Include position of decimal point, dummy zero if required & sign if negative
	at 4mA XXXX* at 20mA XXXX*	

<b>Accessories</b>	<b>Please specify if required</b>
Display backlight	Separately powered backlight
Alarms	Alarms#
Lineariser	Lineariser#
Scale card	Legend
Bargraph scale	Required scale graduations
Tag number	Legend

\* Will be set to display 0.00 at 4mA and 100.00 at 20mA with a linear display if calibration information is not supplied.

# Contact BEKA if calibration of accessories is required.