

Intrinsically Safe and General Purpose **Display Instrumentation**



USA & CANADA Product Summary

NEW PAGEANT

IS Operator Panel

Loop Powered Indicators

Modbus & Serial Data
Displays

Universal Process Panel
Meters

Set Point Stations
[Generators]

Rate Totalisers

Counters

Tachometers

Timers or Clocks

Fieldbus Indicators
& Displays

Flow Batch Controllers

Indicating Temperature
Transmitters

Sounders & Beacons

LED Cluster Lamps



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Intrinsically Safe since 1983

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or contact our partners

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Canada (East) www.jehsmarketing.com

Canada (West) www.kentron.ca



FIELD COMM GROUP
MEMBER



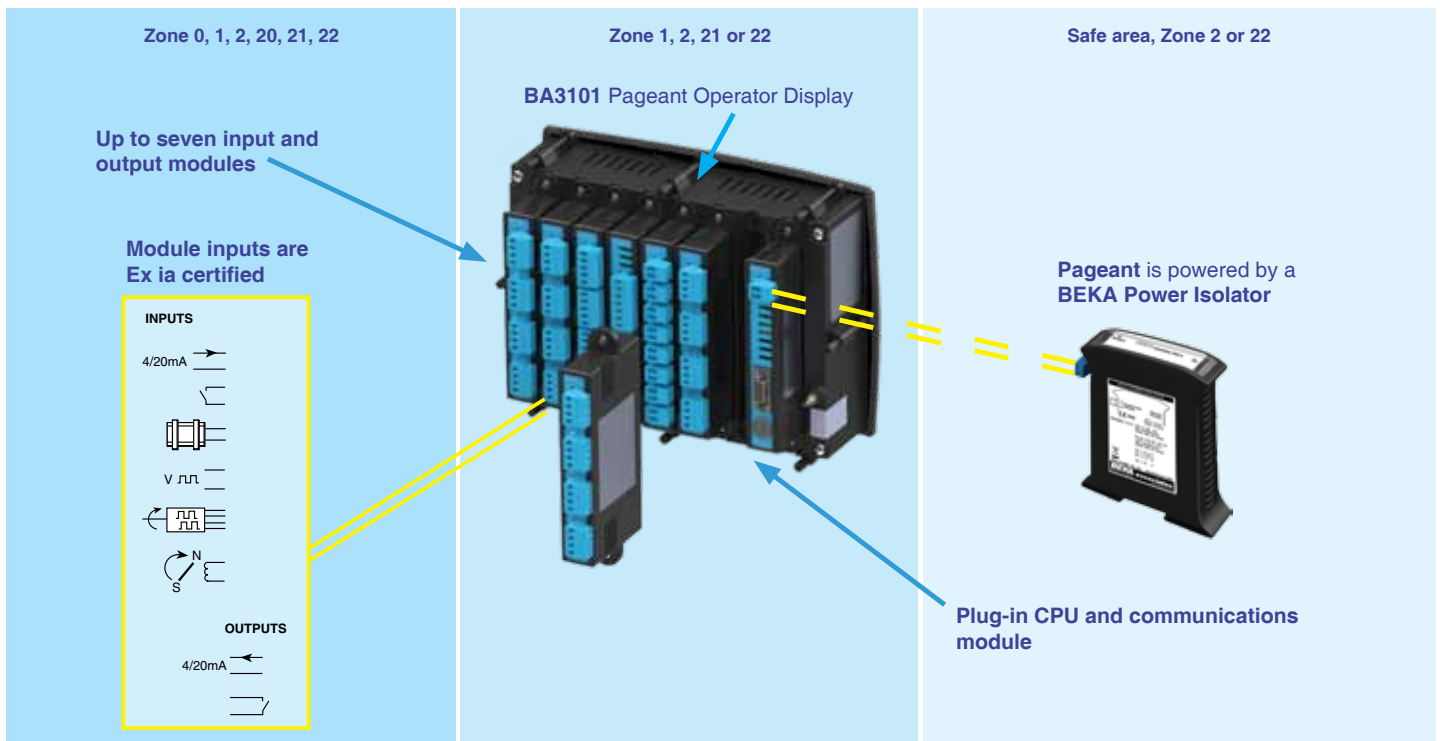


Ex i Intrinsically Safe



*North American Certification
pending*

- > Low cost combined operator panel, PLC & I/O modules
- > Intrinsic safety Ex ia certification allows installation in Zones 1, 2, 21 or 22
- > 7 Inch backlit operator screen
- > IEC 61131 compliant PLC
- > Up to 7 plug-in input or output modules
- > 8 touch buttons with tricolour annunciators
- > IP66 toughened glass and stainless steel front panel
- > 3 year guarantee





BA3101
Intrinsically Safe Operator Display
FSTN Liquid Crystal
178mm (7 inch) diagonal, 320 x 240 pixels
White Backlight, brilliance adjustable
8 Touch buttons & 2 Tri-colour annunciators



BA3201
CPU without external communication
Operating system, memory and power distribution
CODESYS PLC IEC 61131 compliant



BA3202
CPU with Modbus RTU communication
Operating system, memory and power distribution
CODESYS PLC IEC 61131 compliant
Modbus Master or Slave
Isolated RS485-IS



BA212
Power Isolator IIA or IIB applications
4.4W Typical output
Safe area or zone 2 mounting
DIN rail mounting, 22.5mm Wide



BA243
Power Isolator IIC applications
4-Channel, combined output 4.4W
Safe area or zone 2 mounting
DIN rail mounting, 97mm Wide



BA3901
Power Combiner
Required for BA243
Extends cable length for IIC applications
Mounts onto CPU Module



BA3301
Analogue input module
4 x 4/20mA inputs
Individually isolated unpowered inputs
Consumes 4% of power available for modules



BA3401
Digital input module
8 x Contact or open collector
Quadrature decoder using 2 inputs
Consumes 4% of power available for modules



BA3402
Digital input module
8 x NAMUR 2 wire proximity detector inputs
Quadrature decoder using 2 inputs
Consumes 40% of power available for modules



BA3501
Analogue output module
4 x 4/20mA outputs
Individually isolated unpowered outputs
Consumes 4% of power available for modules



BA3601
Digital output module
4 solid state contact outputs
Individually isolated
Consumes 4% of power available for modules



BA3701
Totaliser/counter module
2 Non-isolated 2-wire NAMUR inputs
2 Isolated synchronous pulse outputs
Consumes 24% of power available for modules

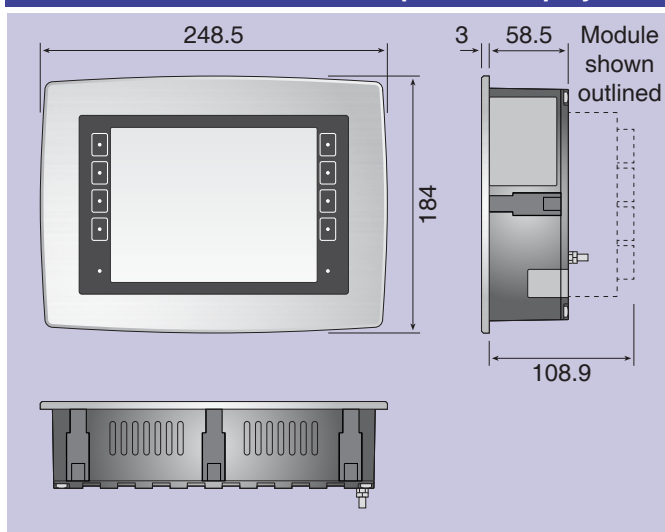


BA3902
USB Programming Cable
Dedicated to Pageant
Required to protect IS circuits



BA3903
RS485-IS Connector
Sub D9 connector
Required for connecting CPU to RS485-IS comms

DIMENSIONS for BA3101 Operator Display



SPECIFICATION

Power supply

Voltage 20 to 30Vdc via Power Isolator
Current Depends on modules fitted 320mA typ.

Certification (typical, see specific data sheet)

IECEx
ATEX & UKEX
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
II 1G Ex ia IIC T4 Ga
II 1D Ex ia IIIC T135°C Da
** Dust certification requires IP54 enclosure*

Environmental

Operating Temp -40 to 65°C (Display -20 to 65°C)
Storage Temp -40 to 85°C
Humidity to 95% at 40°C non-condensing
EMC Complies with EMC directive 2014/30/EU

Materials

Display front 316 Stainless steel. 4mm Toughened glass
Flat, easy to clean & bevelled outside edges
Display rear Flame retardant Noryl
Power Isolator Flame retardant ABS & Polycarbonate
Modules Flame retardant Noryl

Ingress Protection

Display IP66 (front) IP20 (rear)
Modules IP20

Weights

See individual data sheets

Field Mounting

4/20mA Loop Powered Digital Indicators



An extensive range of 4/20mA loop powered field mounting indicators in GRP and 316 stainless steel enclosures.

- > **Large high contrast displays with a wide viewing angle**
- > **General purpose and certified hazardous area models**
Div 1, Div 2 and AEx certified
- > **Robust impact resistant GRP and 316 stainless steel IP66 enclosures (Similar to NEMA 4X)**
Compact 'G' models with GRP or stainless steel enclosure
'E' models with separate terminal compartment
- > **Internal calibrator, root extractor, linearizer & tare function**
- > **-40°F to +158°F (-40°C to +70°C) operating temperature range**
- > **Accessories**
Dual isolated alarms
Display backlight may be loop or separately powered
Pipe & panel mounting kits
Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.
Laser engraved stainless steel legend plates



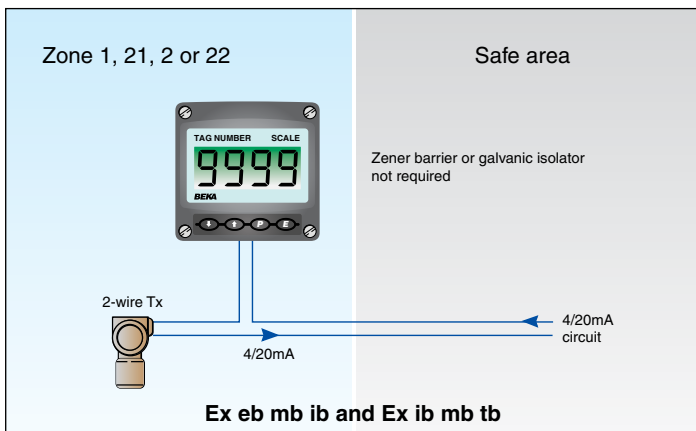
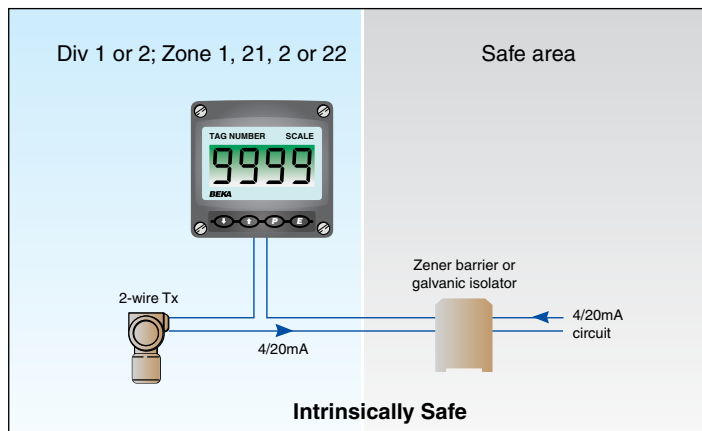
Slide-in scale card can be supplied printed with customer specified information for no extra charge.



'G' instrument panel mounted using BA494G panel mounting kit.



'G' instrument attached to pipe using BA393G panel mounted kit.



An **indicator** for every **application** -
delivered ready for **installation**



Model No.	Digits		North America						North America						IECEX/ATEX/UKEX						General purpose
			Class I		Class II		Class III		Gas			Dust			Gas			Dust			
	No.	Height	Division		Division		Division		Zone Class 1						Zone						
			1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
GRP ENCLOSURE, COMPACT																					
BA304G	4	1.34" (34mm)	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	ia	ia	ia	ia	ia	-	ia	ia	-
BA324G	5	1.14" (29mm)	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	ia	ia	ia	ia	ia	-	ia	ia	-
BA304SG	4	1.34" (34mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	eb	eb	-	tb	tb	-
BA324SG	5	1.14" (29mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	eb	eb	-	tb	tb	-
BA504G	4	1.34" (34mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA524G	5	1.14" (29mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

IS = Intrinsically Safe
NI = Nonincendive

ia = AEx or Ex ia

eb = Ex eb mb ib
tb = Ex ib mb tb

STAINLESS STEEL ENCLOSURE, COMPACT

BA304G-SS	4	1.34" (34mm)	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	ia	ia	ia	ia	ia	-	ia	ia	-
BA324G-SS	5	1.14" (29mm)	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	ia	ia	ia	ia	ia	-	ia	ia	-
BA504G-SS	4	1.34" (34mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA524G-SS	5	1.14" (29mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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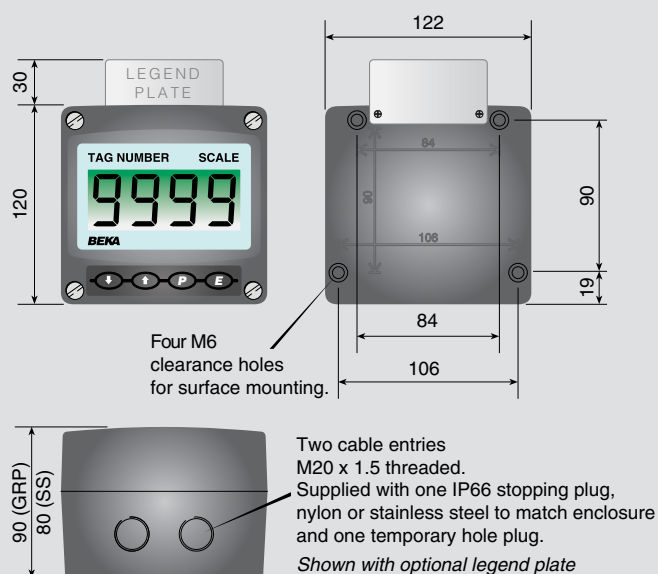
ia = AEx or Ex ia

ROUND ALUMINIUM OR STAINLESS STEEL FLAMEPROOF HOUSING

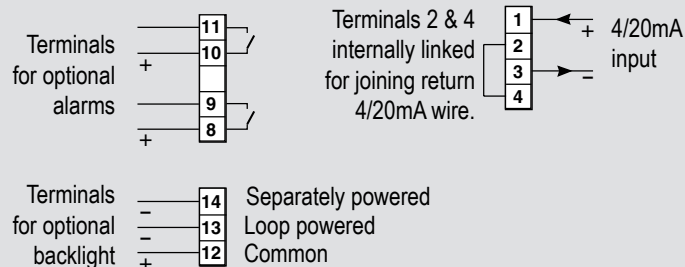
BR323AL	5	0.39" (10mm)	-	-	-	-	-	-	-	-	-	-	-	-	d	d	-	d	d	-
BR323SS	5	0.39" (10mm)	-	-	-	-	-	-	-	-	-	-	-	-	d	d	-	d	d	-

d = Ex d

DIMENSIONS 'G' Enclosure



Terminal Connections



Panel Mounting

4/20mA Loop Powered Digital Indicators



Gasket provides IP66 seal to panel



Sturdy panel clamps supplied with unit



Easy scale card installation without the need to remove indicator from the panel.

An extensive range of panel mounting 4/20mA loop powered indicators in Noryl or rugged 316 stainless steel enclosures.

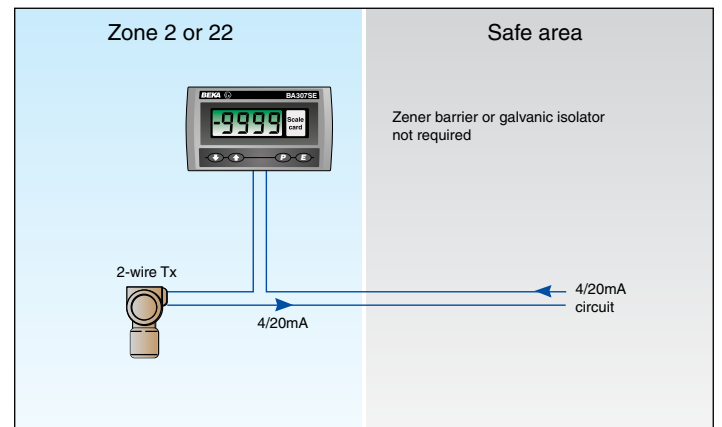
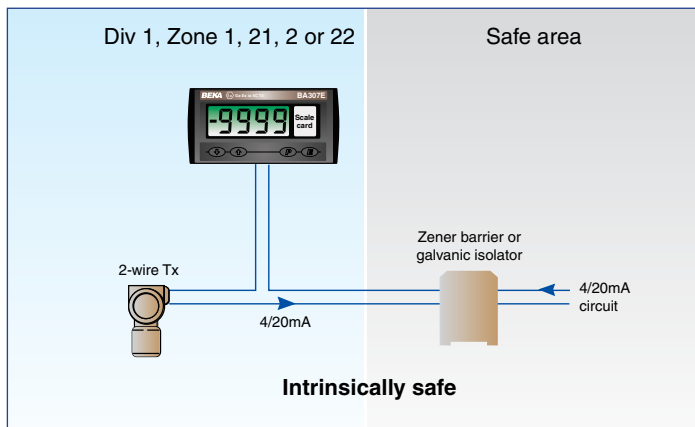
- > **Large high contrast displays with a wide viewing angle**
- > **General purpose and certified hazardous area models**
Div 1, Div 2 and AEx certified
- > **Rugged stainless steel models**
- > **Combined analogue and digital display indicators**
- > **IP66 front panels (Similar to NEMA 4X)**
- > **Internal calibrator, root extractor, lineariser & tare function**
- > **-40°F to +158°F (-40°C to +70°C) operating temperature range**
- > **Accessories**

Dual isolated alarms

Display backlight may be loop or separately powered


Scale card - can be supplied printed with units of measurement and tag information for no additional charge.

BA495 rear IP66 sealing kit



An **indicator** for every **application** -
delivered ready for **installation**




Model No.	Digits		North America						North America						IECEx/ATEX/UKEX						General purpose
			Class I		Class II		Class III		Gas			Dust			Gas			Dust			
	No.	Height	Division		Division		Division		Zone Class 1						Zone						
			1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
1/8 DIN 96 x 48mm																					
 BA307E	4	0.59" (15mm)	IS	NI	-	NI	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	ia	ia	-
BA327E	5	0.5" (12.7mm)	IS	NI	-	NI	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	ia	ia	-
BA507E	4	0.59" (15mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA527E	5	0.5" (12.7mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

IS = Intrinsically Safe
NI = Nonincendive

ia = AEx ia

ia = Ex ia

DIN 144 x 72mm																					
 BA308E	4	1.34" (34mm)	IS	NI	-	NI	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	ia	ia	-
BA328E	5	1.14" (29mm)	IS	NI	-	NI	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	ia	ia	-
BA508E	4	1.34" (34mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA528E	5	1.14" (29mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

IS = Intrinsically Safe
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ia = AEx ia

ia = Ex ia


STAINLESS STEEL ENCLOSURE, RUGGED 105mm x 60mm																						
	BA307E-SS	4	0.59" (15mm)	IS	NI	-	-	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	ia	ia	-
	BA327E-SS	5	0.5" (12.7mm)	IS	NI	-	-	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	ia	ia	-
	BA307SE	4	0.59" (15mm)	-	-	-	-	-	-	-	ec	-	-	tc	-	-	nA	-	-	ic	-	
	BA327SE	5	0.5" (12.7mm)	-	-	-	-	-	-	-	ec	-	-	tc	-	-	nA	-	-	ic	-	
	BA507E-SS	4	0.59" (15mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP	
	BA527E-SS	5	0.5" (12.7mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP	

IS = Intrinsically Safe
NI = Nonincendive

ia = Ex ia ec
ec = AEx or Ex ec ic
ic = AEx or Ex ic tc




DIN 48 x 144mm Combined Analog & Digital Indicator, 100 Segment Bargraph																					
 BA326C	4.5	0.22" (5.5mm)	-	-	-	-	-	-	-	-	-	-	-	-	ia	ia	ia	-	-	-	-
BA526C	4.5	0.22" (5.5mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

ia = Ex ia

STAINLESS STEEL ENCLOSURE, RUGGED 122mm x 120mm																					
BA304G-SS-PM	4	1.34" (34mm)	-	-	-	-	-	-	-	-	-	-	-	-	ia	ia	ia	-	ia	ia	-
BA324G-SS-PM	5	1.14" (29mm)	-	-	-	-	-	-	-	-	-	-	-	-	ia	ia	ia	-	ia	ia	-
 BA504G-SS-PM	4	1.34" (34mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA524G-SS-PM	5	1.14" (29mm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

ia = Ex ia

UK
CA

Model No.	Communication	North America						North America						IECEx/ATEX/UKEX						General purpose	
		Class I		Class II		Class III		Gas			Dust			Gas			Dust				
		Division		Division		Division		Zone Class 1						Zone							
		1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22		
FIELD MOUNTED																					
	BA484D	Via BA201 Galvanic Isolator RS232 or RS485	IS	NI	IS	NI	IS	NI	-	-	-	-	-	-	ia	ia	ia	ia	ia	ia	-
	BA684D		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
IS = Intrinsically Safe NI = Nonincendive ia = Ex ia																					
PANEL MOUNTED																					
	BA488C	Via BA201 Galvanic Isolator RS232 or RS485)	IS	NI	-	-	-	-	-	-	-	-	-	-	ia	ia	ia	-	-	-	-
	BA688C		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
IS = Intrinsically Safe NI = Nonincendive ia = Ex ia																					
COMMUNICATION ISOLATOR																					
	BA201	Galvanic Isolator	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
IS = Intrinsically Safe NI = Nonincendive ia = AEx ia ia = Ex ia																					

Fieldbus Indicators & Displays



An extensive range of bus powered, single and eight variable Displays, Indicators and Listeners for use with FOUNDATION fieldbus and Profibus PA systems in hazardous or safe areas.

FIELDBUS INDICATORS

5 digit 0.79" high LCD digits with a 31 segment bargraph


- > Single variable FOUNDATION fieldbus models
- > 8 variable FOUNDATION fieldbus models which can be nodes or listeners.
- > 8 variable Profibus PA models which can be nodes or listeners.

FIELDBUS DISPLAYS

Graphical display which can show up to 8 variables

- > Models for FOUNDATION fieldbus or Profibus PA applications.
- > Choice of 11 standard display screen formats, some with bargraphs.
- > Backlight
- > Push buttons for operator acknowledgements
- > 6 optional outputs



Model No.	Variables	Protocol	North America						IECEX/ATEX/UKEX						General purpose	
			Class I		Class II		Class III		Gas			Dust				
			Division		Division		Division		Zone							
			1	2	1	2	1	2	0	1	2	20	21	22		
FIELD MOUNTED INDICATOR																
 BA414DF	1	FF	IS	NI	IS	NI	IS	NI	ia	ia	ia/c	ia	ia	ia	-	
BA444DF	8	FF or Profibus	IS	NI	IS	NI	IS	NI	ia	ia	ia/c	ia	ia	ia	-	
BA614DF	1	FF	-	-	-	-	-	-	-	-	-	-	-	-	GP	
BA644DF	8	FF or Profibus	-	-	-	-	-	-	-	-	-	-	-	-	GP	


IS = Intrinsically Safe
NI = Nonincendive

ia = Ex ia
ia/c = Ex ia & Ex ic

FIELD MOUNTED DISPLAY															
 BA484DF	8	FF or Profibus	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	-
BA684DF	8	FF or Profibus	-	-	-	-	-	-	-	-	-	-	-	-	GP


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ia = Ex ia

PANEL MOUNTED INDICATOR															
 BA418CF	1	FF	IS	NI	-	-	-	-	ia	ia	ia/c	-	-	-	-
BA448CF	8	FF or Profibus	IS	NI	-	-	-	-	ia	ia	ia/c	-	-	-	-
BA618CF	1	FF	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA648CF	8	FF or Profibus	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia/c = Ex ia & Ex ic

PANEL MOUNTED DISPLAY															
 BA488CF	8	FF or Profibus	IS	NI	-	-	-	-	ia	ia	ia	-	-	-	-
BA688CF	8	FF or Profibus	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

Field Mounting Rate Totalisers



This extensive range includes one and two pulse input instruments and loop powered 4/20mA rate totalisers. All models can display rate of flow and total flow on separate displays in the same or different engineering units. The pulse input instruments will operate with most types of sensor and all models include square root extraction and an adjustable lineariser enabling flow to be displayed in linear engineering units.

> **Large high contrast separate rate and total displays with wide viewing angle**

> **General purpose and certified hazardous area models**

International Gas & Dust certification

> **Robust impact resistant IP66 GRP enclosures (Similar to NEMA 4X)**

Compact 'G' models

'E' models with separate terminal compartment

> **Isolated pulse output**

> **-40°F to +158°F (-40°C to +70°C) operating temperature range**

> **Accessories**

Dual isolated alarms

Isolated 4/20mA output

Backlight


Pipe & panel mounting kits

Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.

Laser engraved stainless steel legend plates




A Rate Totaliser
for every *application*

Model No.	Input	Powered	North America						North America						IECEX/ATEX/UKEX						General purpose
			Class I		Class II		Class III		Gas			Dust			Gas			Dust			
			Division		Division		Division		Zone Class 1						Zone						
			1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
GRP ENCLOSURE, COMPACT																					
 BA334G	Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA384G	2 x Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA534G	Pulse	External	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA584G	2 x Pulse	External	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

IS = Intrinsically Safe
NI = Nonincendive
C = Canada

ia = AEx or Ex ia

ia = Ex ia

GRP ENCLOSURE, SEPARATE TERMINAL COMPARTMENT																					
 BA334E	Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	-	-	-	-	-
BA354E	4-20mA	Loop Powered	IS	NI	IS	NI	IS	NI	-	-	-	-	-	-	ia	ia	ia	ia	ia	ia	-
BA384E	2 x Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	-	-	-	-
BA554E	4-20mA	Loop Powered	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = AEx or Ex ia

ia = or Ex ia

Panel Mounting Rate Totalisers




Includes one and two pulse input instruments and loop powered 4/20mA rate totalisers which can display rate and total flow separately. The pulse input instruments will operate with most types of sensor and all models include square root extraction and an adjustable lineariser. The rugged stainless steel totalisers can be safely mounted in a certified panel enclosure without invalidating the panel enclosure's certification.



- > **Large high contrast displays with wide viewing angle**
- > **General purpose and certified hazardous area models**
International Gas & Dust certification.
- > **Rugged stainless steel Ex ia models**
May be installed in a certified panel enclosure without invalidating the enclosure's certification.
- > **Isolated pulse output**
- > **IP66 front panels (Similar to NEMA 4X)**
- > **-40°F to +158°F (-40°C to +70°C) operating temperature range**
- > **Accessories**
Dual isolated alarms
Isolated 4/20mA output
Backlight
Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.
IP66 rear sealing kit.

...delivered ready for **installation**

Model No.	Input	Powered	North America						North America						IECEX/ATEX/UKEX						General purpose
			Class I		Class II		Class III		Gas			Dust			Gas			Dust			
			Division		Division		Division		Zone Class 1						Zone						
			1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
1/8 DIN 96 x 48mm																					
 BA337E	Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA537E	Pulse	External	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

DIN 144 x 72mm																					
BA338E	Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA358E	4-20mA	Loop Powered	IS	NI	-	NI	-	NI	ia	ia	ia	-	-	-	ia	ia	ia	ia	ia	ia	-
BA388E	2 x Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA538E	Pulse	External	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA558E	4-20mA	Loop Powered	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA588E	2 x Pulse	External	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

IS = Intrinsically Safe
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ia = AEx or Ex ia

ia = Ex ia

STAINLESS STEEL ENCLOSURE, RUGGED 105mm x 60mm																					
 BA337E-SS	Pulse	External	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA537E-SS	Pulse	External	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

IS = Intrinsically Safe
NI = Nonincendive

ia = AEx or Ex ia

ia = Ex ia

Counters



An extensive range of one and two input pulse counters which can display total and rate on separate displays in the same or different engineering units. The two input models can display the sum or differences of the inputs and can also decode a quadrature detector and display position.

- > **Large high contrast displays with wide viewing angle**
- > **General purpose and certified hazardous area models**
International Gas & Dust certification
- > **Field mounting models have IP66 GRP enclosure**
Compact 'G' models
'E' models with separate terminal compartment
Pipe and panel mounting accessories
- > **Panel mounting models**
Choice of sizes all with IP66 front panels.
(Similar to NEMA 4X)
Rugged stainless steel models may be installed in certified panel enclosures without invalidating the enclosure's certification.
Rear IP66 sealing kit
- > **Isolated pulse output**
Synchronous with input for retransmission
- > **-40°F to +158°F (-40°C to +70°C) operating temperature range**



- > **Accessories**
Dual isolated alarms
Isolated 4/20mA output
Backlight
Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.
Laser engraved stainless steel legend plates

Model No.	Input	North America						North America						IECEX/ATEX/UKEX						General purpose
		Class I		Class II		Class III		Gas			Dust			Gas			Dust			
		Division		Division		Division		Zone Class 1						Zone						
		1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	

FIELD MOUNTED, GRP ENCLOSURE, COMPACT



BA364G	2 x Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA564G	2 x Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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C = Canada

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ia = Ex ia

FIELD MOUNTED, GRP ENCLOSURE, SEPARATE TERMINAL COMPARTMENT



BA364E	2 x Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	-	-	-	-
---------------	-----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---

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ia = Ex ia

PANEL MOUNTED, 1/8 DIN 96 x 48mm



BA367E	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA567E	Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

PANEL MOUNTED, DIN 144 x 72mm



BA368E	2 x Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA568E	2 x Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

PANEL MOUNTED, STAINLESS STEEL ENCLOSURE, RUGGED 105mm x 60mm



BA367E-SS	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA567E-SS	Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

Tachometers



A tachometer for every application which can display speed and run-time on separate displays. Operates with most transducers.

- > **Large high contrast displays with wide viewing angle**
- > **General purpose and certified hazardous area models**
International Gas & Dust certification
- > **Field mounting models have IP66 GRP enclosure**
Compact 'G' models
'E' models with separate terminal compartment
Pipe and panel mounting accessories
- > **Panel mounting models**
Choice of sizes all with IP66 front panels.
(Similar to NEMA 4X)
Rugged stainless steel models may be installed in certified panel enclosures without invalidating the enclosure's certification.
Rear IP66 sealing kit
- > **Isolated pulse output**
Synchronous with input for retransmission
- > **-40°F to +158°F (-40°C to +70°C) operating temperature range**



- > **Accessories**
Dual isolated alarms
Isolated 4/20mA output
Backlight
Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.
Laser engraved stainless steel legend plates

Model No.	Input	North America						North America						IECEX/ATEX/UKEX						General purpose
		Class I		Class II		Class III		Gas			Dust			Gas			Dust			
		Division		Division		Division		Zone Class 1						Zone						
		1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	

FIELD MOUNTED, GRP ENCLOSURE, COMPACT



BA314G	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA514G	Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = AEx or Ex ia

ia = Ex ia

FIELD MOUNTED, GRP ENCLOSURE, SEPARATE TERMINAL COMPARTMENT



BA314E	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	-	-	-	-
---------------	-------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---

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ia = Ex ia

PANEL MOUNTED, 1/8 DIN 96 x 48mm



BA317E	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA517E	Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

PANEL MOUNTED, DIN 144 x 72mm



BA318E	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA518E	Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

PANEL MOUNTED, STAINLESS STEEL ENCLOSURE, RUGGED 105mm x 60mm



BA317E-SS	Pulse	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA517E-SS	Pulse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

Timers or Clocks



One and two input instruments that can be configured as a Timer or as a Clock. As a Timer they can measure and display elapsed time between events, or control events via optional control outputs. As a Clock local time is displayed and optional control outputs can be configured to turn on and off twice in each 24 hour period.

> **Large high contrast displays with wide viewing angle**

> **General purpose and certified hazardous area models**

International Gas and Dust certification

> **Field mounting models have NEMA 4X (IP66) GRP enclosure**

Compact 'G' models

'E' models with separate terminal compartment

Pipe and panel mounting accessories

> **Panel mounting models**

Choice of sizes all with IP66 front panels.

(Similar to NEMA 4X)

Rugged stainless steel Ex ia model may be installed in a certified panel enclosure without invalidating the enclosure's certification.

Rear IP66 sealing kit

> **-40°F to +158°F (-40°C to +70°C) operating temperature range**




> **Accessories**

Dual isolated control outputs

Backlight

Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.

Laser engraved stainless steel legend plates

Model No.	Input	North America						North America						IECEX/ATEX/UKEX						General purpose
		Class I		Class II		Class III		Gas			Dust			Gas			Dust			
		Division		Division		Division		Zone Class 1						Zone						
		1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
FIELD MOUNTED,GRP ENCLOSURE, COMPACT																				
 BA374G	2 x Sensors	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA574G	2 x Sensors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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C = Canada

ia = AEx or Ex ia

ia = Ex ia

FIELD MOUNTED, GRP ENCLOSURE, SEPARATE TERMINAL COMPARTMENT																				
 BA374E	2 x Sensors	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	-	-	-	-

IS = Intrinsically Safe
NI = Nonincendive

ia = AEx or Ex ia


ia = Ex ia

PANEL MOUNTED, 1/8 DIN 96 x 48mm																				
 BA377E	Sensor	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA577E	Sensor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = Ex ia

PANEL MOUNTED, DIN 144 x 72mm																				
 BA378E	2 x Sensors	IS	NI	IS	NI	IS	NI	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-
BA578E	2 x Sensors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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ia = AEx or Ex ia

ia = Ex ia

PANEL MOUNTED, STAINLESS STEEL ENCLOSURE, RUGGED 105mm x 60mm																				
 BA377E-SS	Sensor	IS	NI	IS	NI	IS	NI	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	ia	-
BA577E-SS	Sensor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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Flow Batch Controllers



Very easy to use, stand alone batch controllers for dispensing and sampling. Graphical display that can be configured to suit applications including up to 9 named batch setpoints.

- > **Graphical display with backlight**
- > **General purpose and certified hazardous area models**
ATEX gas and dust certification.
- > **Field mounting models have IP66 impact resistant GRP enclosure (Similar to NEMA 4X)**
Separate terminal compartment
Pipe mounting accessories.
- > **Panel mounting models**
IP66 front panel (Similar to NEMA 4X)

> **Input**
Pulse or 4/20mA

> **Three isolated outputs**

Output 1:
control output

Outputs 2 & 3 configurable:

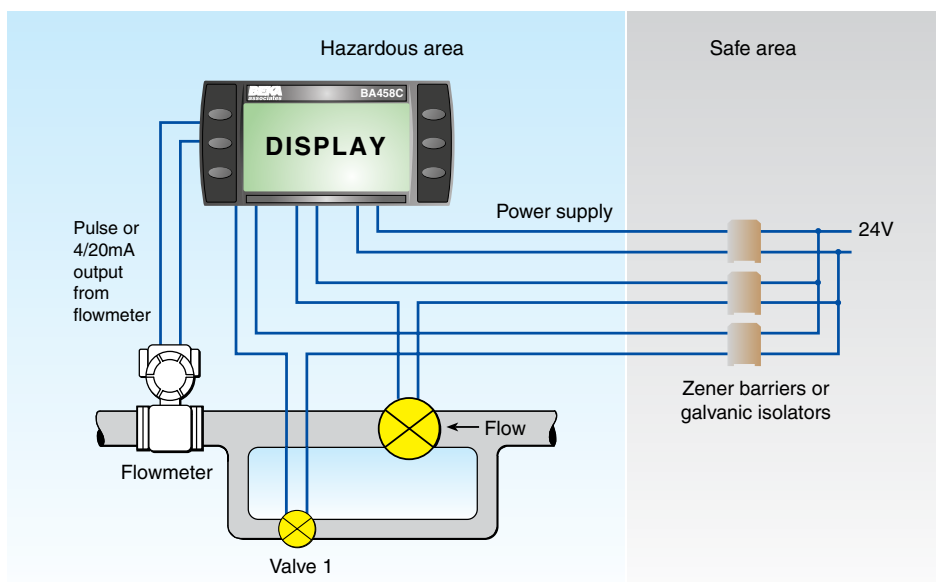
control outputs
flow alarm
reset alarm
reset status
batch state
scaled pulse output

> **Single or two-stage control with overrun compensation**

> **Provision for external push buttons**
Push button control may be transferred to external switches.

> **-4°F to +140°F (-20°C to +60°C) operating temperature range**

> **Accessories**
Three additional configurable isolated outputs.
Laser engraved stainless steel legend plates.



Model No.	ATEX/UKEX						General purpose
	Gas			Dust			
	Zone						
	0	1	2	20	21	22	
FIELD MOUNTED							
BA454D	ia	ia	ia	ia	ia	ia	-
BA654D	-	-	-	-	-	-	GP

ia = Ex ia

PANEL MOUNTED DIN 144 x 72mm							
BA458C	ia	ia	ia	-	-	-	-
BA658C	-	-	-	-	-	-	GP

ia = Ex ia

Set Point [Generator]



For manually adjusting a 4/20mA process variable or controller set point from within a hazardous or safe area using the instrument's push buttons. These loop powered instruments incorporate a display to show the operator the 4/20mA current in engineering units.

> **General purpose and certified hazardous area models**

International Gas and Dust certification.

> **Rugged stainless steel Ex ia models**

May be installed in a certified panel enclosure without invalidating the enclosure's certification.

> **IP66 front panels (Similar to NEMA 4X)**

> **BA490 Quadrature rotary encoder**

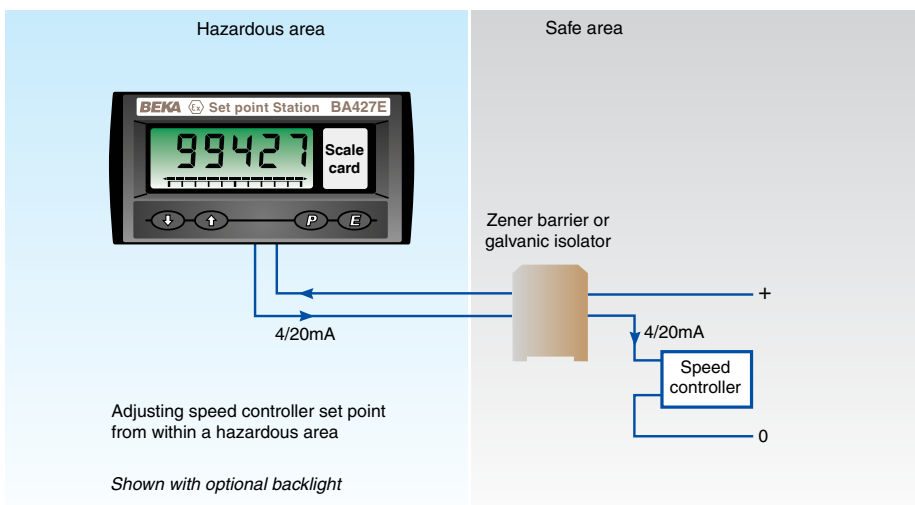
Alternative to using the set point station's push buttons, current can be controlled by an external rotary encoder such as the BA490.

> **-40°F to +158°F (-40°F to +70°C) operating temperature range**

> **Accessories**

Display backlight may be loop or separately powered

Scale card - can be supplied printed with units of measurement and tag information for no additional charge
Rear IP66 sealing kit



Model No.	IECEx/ATEX/UKEX						General purpose
	Gas			Dust			
	Zone						
	0	1	2	20	21	22	
FIELD MOUNTED							
BA427E	ia	ia	ia	ia	ia	ia	-
BA627E	-	-	-	-	-	-	GP

ia = Ex ia

PANEL MOUNTED DIN 144 x 72mm							
BA427E-SS	ia	ia	ia	ia	ia	ia	-
BA627E-SS	-	-	-	-	-	-	GP

ia = Ex ia

PANEL MOUNTED, ROTARY ENCODER							
BA490	✓	✓	✓	✓	✓	✓	✓

✓ Simple Apparatus

Indicating Temperature Transmitters

HART
COMMUNICATION PROTOCOL



Field and panel mounting loop powered HART enabled temperature transmitters which incorporate a large easy to read temperature display. Innovative certification eliminates need for barrier or isolator for ATEX/IECEx applications.



- > **Large high contrast temperature display with 0.79" high digits**
- > **General purpose and certified hazardous area models**
International Gas & Dust certification
- > **Field mounting models**
Separate terminal compartment.
Innovative certification eliminates need for barrier or isolator
- > **Panel mounting models**
IP66 front panels (Similar to NEMA 4X)
- > **HART communication**
Sensor diagnostics
- > **-4°F to +140°F (-20°F to +60°C) operating temperature range**

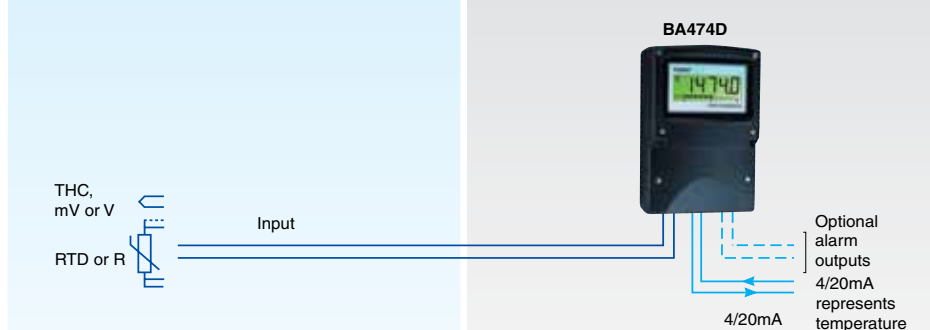
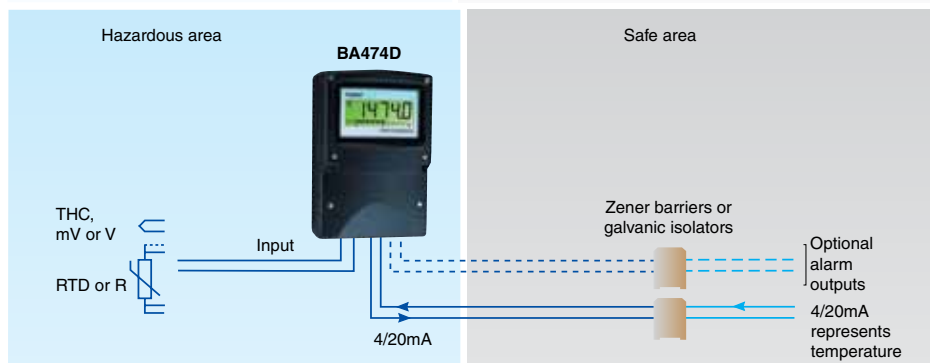
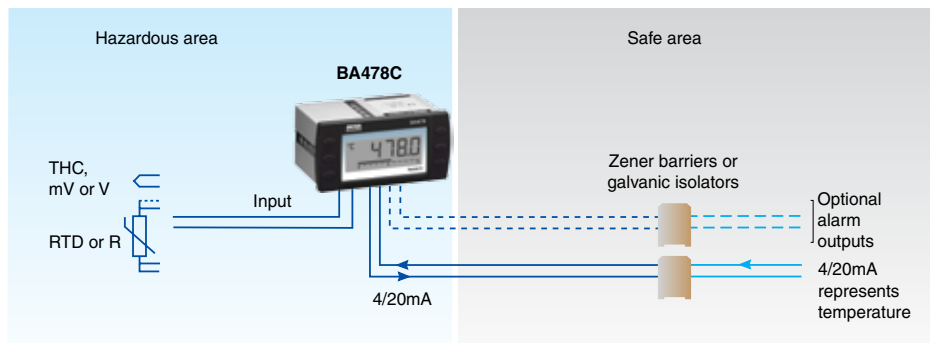
> Accessories

Dual isolated alarms

Backlight loop powered

Scale card - can be supplied printed with units of measurement and tag information for no additional charge

Laser engraved stainless steel legend plates



Model No.	IECEX/ATEX/UKEX							General purpose
	Gas			Dust				
	Zone							
	0	1	2	20	21	22		
FIELD MOUNTED								
BA474D	ia	ia	ia	ia	ia	ia	-	
BA674D	-	-	-	-	-	-	GP	

ia = Ex ia



PANEL MOUNTED DIN 144 x 72mm							
BA478C	ia	ia	ia	-	-	-	-
BA678C	-	-	-	-	-	-	GP

ia = Ex ia



Universal process panel meters with MULTICOLOR displays



New, high quality universal process panel meters featuring multicolored, negative liquid crystal five digit and bargraph displays which are visible in all lighting conditions from bright sunlight to total darkness. The display color is fully adjustable and can be linked to the meter's optional alarms, providing operators with a very conspicuous status warning. Display colors and brightness can easily be adjusted on-site to match other instrumentation on the panel.

The meters have process current, voltage and resistance thermometer inputs, with separate versions for powering from a low voltage dc or from an ac mains supply.

All models have IP66 front of panel protection and a scratch resistant glass window. For marine or harsh environments where the front of the instrument may be impacted, the rugged A90-SS has a stainless steel enclosure with a 10mm thick toughened glass window.

Panel meters can be supplied configured to customer's requirements and fitted with a printed slide-in scale card showing specified units of measurement and tag information for no additional charge.

Courtesy of Saffron Scientific Equipment.



- > **High quality**
UK designed and manufactured
- > **Large high contrast multicolor 5 digit display with bargraph**
Fully adjustable display color
Visible in all lighting conditions
Negative liquid crystal technology
- > **Input - may be configured on-site**
4-20mA or 0-50mA
0-100mV, 0-1V or 0-10V
Pt100 2-wire or 3-wire RTD
- > **Power supply - separate versions for:**
10 to 36V dc
90 to 264V ac 47-63Hz
- > **IP66 front of panel protection with toughened glass window (Similar to NEMA 4X)**
- > **A90-SS has stainless steel enclosure and 10mm thick toughened glass window**
For harsh and marine environments
- > **-40°F to +131°F (-40°C to +55°C) operating temperature range**
- > **Accessories**
Isolated Modbus RTU
Dual isolated alarms with changeover contacts, alarms can be linked to display color.
Isolated 4/20mA output
Isolated 24V transmitter power supply
IP66 rear sealing kit
Scale cards - can be supplied printed with units of measurement and tag information for no additional charge.

General Purpose - for use in safe areas

Model No.	Separate versions for 10-36V dc or 90 to 264V ac supplies
A90	Universal process meter
A90-SS	Rugged universal process meter in stainless steel enclosure

Ex ia Sounders & Beacons



High performance Ex ia intrinsically safe sounder and flashing beacon in IP66 enclosures, may be used separately or as a pair powered from a single intrinsically safe circuit. Both are IECEX, ATEX and US certified for use in gas hazardous areas.



BR385 SOUNDER

- > 49 different sounds
- > 3 stage alarm
- > Up to 105dBA output
- > IP66 enclosure (Similar to NEMA 4X)

BA386 BEACON

- > Red, Amber, Green, Blue & White models
- > 2 double flashes per second
- > Alarm accept function silences sounder for pre-set time.
- > Steady state BA386S version also available



Model No.	North America						North America						IECEX/ATEX/UKEX						General purpose
	Class I		Class II		Class III		Gas			Dust			Gas			Dust			
	Division		Division		Division		Zone Class 1						Zone						
	1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
AUDIBLE SOUNDER																			
BR385	IS	IS	-	-	-	-	ia	ia	ia	-	-	-	ia	ia	ia	-	-	-	-

IS = Intrinsically Safe
NI = Nonincendive

ia = Ex ia



LED FLASHING BEACON																			
BA386	IS	NI	-	-	-	-	ia	-	NI	-	-	-	ia	ia	ia	-	-	-	-

IS = Intrinsically Safe
NI = Nonincendive

ia = Ex ia
NI = Nonincendive

ia = Ex ia



LED STEADY STATE BEACON																			
BA386S	IS	NI	-	-	-	-	ia	-	NI	-	-	-	ia	ia	ia	-	-	-	-

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NI = Nonincendive

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LED Panel Lamps



Bright, low cost panel mounting lamps with IP66 front of panel protection which have a ten year life expectancy.

- > Red, Amber, Green, Blue & White models
- > BA390 lamps have 20mA constant current consumption
- > BA390S lamps have specified performance at 4mA
- > BA599 rear sealing kit includes cable gland



Model No.	Input	North America						North America						ATEX/IECEX/UKEX						General purpose
		Class I		Class II		Class III		Gas			Dust			Gas			Dust			
		Division		Division		Division		Zone Class 1						Zone						
		1	2	1	2	1	2	0	1	2	20	21	22	0	1	2	20	21	22	
30mm LENS FOR 22.5mm CUT-OUT																				
BA390	20mA Constant Current	IS	NI	-	-	-	-	ia	ia	ia	-	-	-	ia	ia	ia	ia	ia	ia	-
BA390S	Low Current 4mA	IS	NI	-	-	-	-	ia	ia	ia	-	-	-	ia	ia	ia	ia	ia	ia	-
BA590	20mA Constant Current	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP
BA590S	Low Current 4mA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GP

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Accessories for FIELD mounting instruments

BEKA field mounting instruments are housed in one of three enclosures, each with a range of mounting and marking accessories.

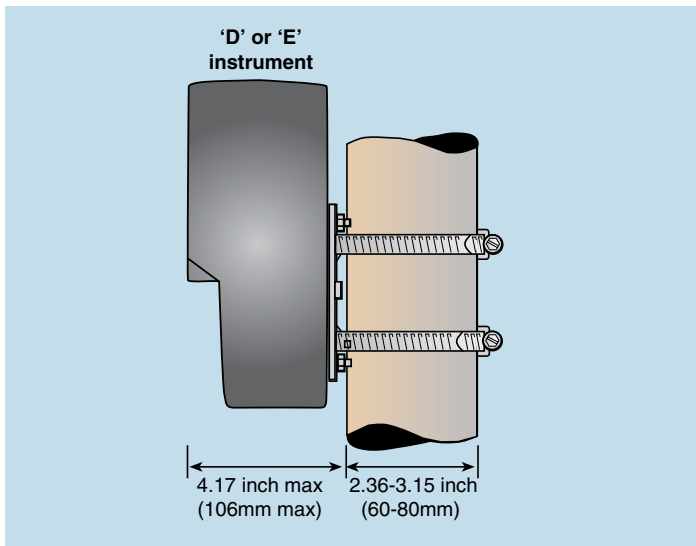
Model numbers with a 'D' or 'E' suffix
Model numbers with a 'G' suffix
Model numbers with a 'G-SS' suffix

IP66 GRP enclosure with separate terminal compartment
IP66 compact GRP enclosure
IP66 compact 316 stainless steel enclosure

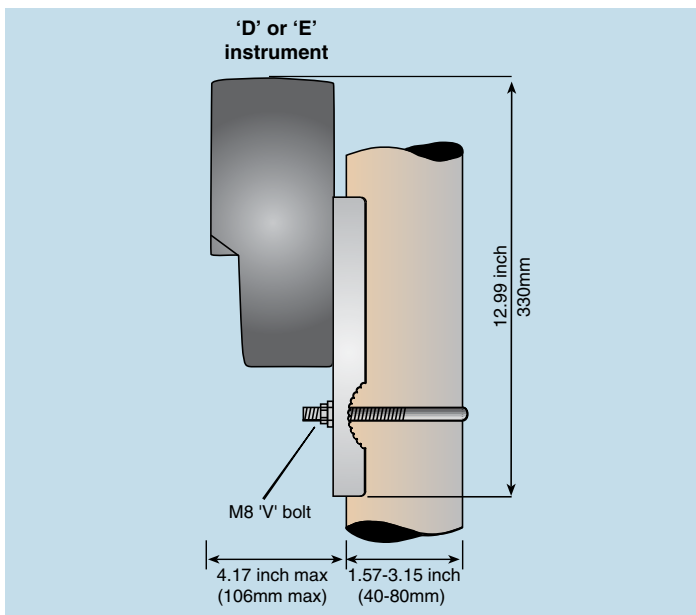
'D' and 'E' Instruments

PIPE MOUNTING KITS

BA392D Standard duty 316 stainless steel bracket secured by two stainless steel worm drive hose clips which attach instrument to any 60 to 80mm outside diameter vertical or horizontal pipe. Usually suitable for clamping to a 2 inch internal diameter metal pipe.



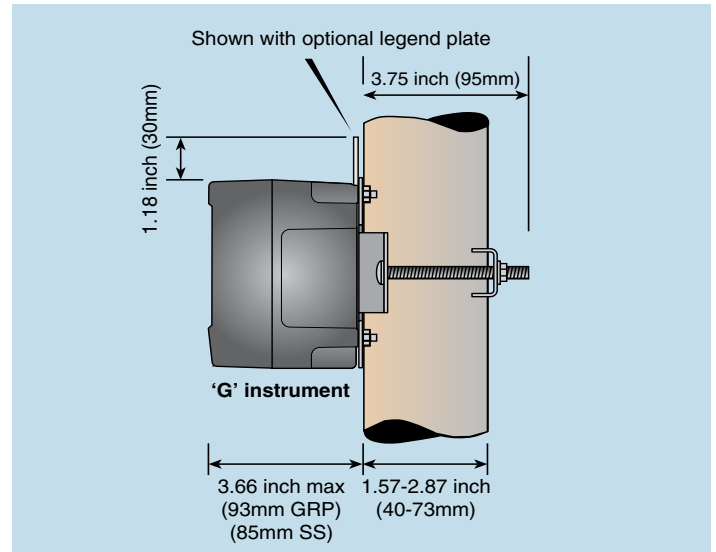
BA393 Heavy duty 316 stainless steel pipe mounting bracket using a single 'V' bolt which attaches instrument to any vertical or horizontal pipe with an outside diameter between 40 and 80mm. Will also support BEx series flameproof sounders and beacons.



'G' and 'G-SS' Instruments

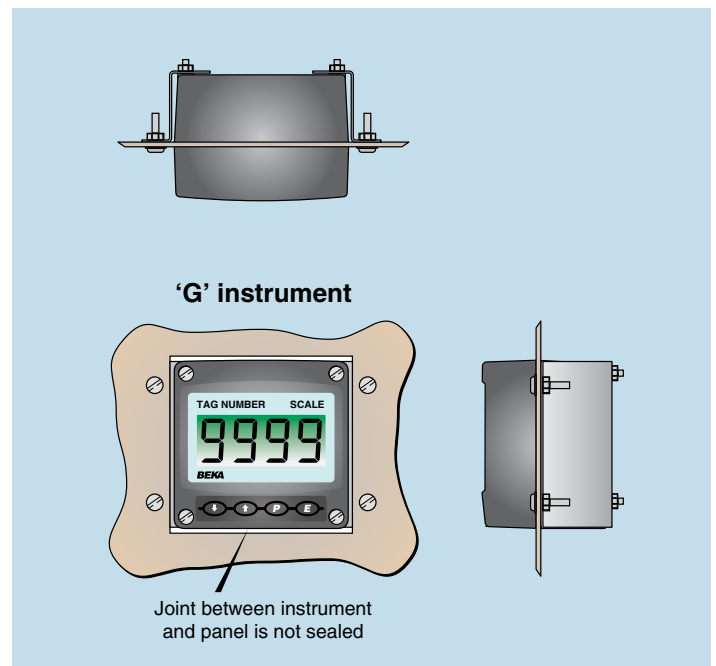
PIPE MOUNTING KIT

BA393G 316 stainless steel pipe mounting bracket attaches 'G' instruments to any vertical or horizontal pipe with an outside diameter between 40 and 73mm.

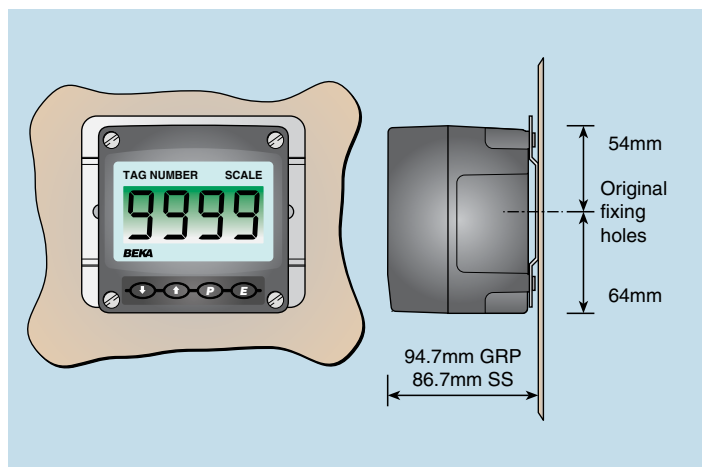


PANEL MOUNTING KIT

BA394G 316 stainless steel panel mounting kit secures a GRP or stainless steel 'G' instrument in a panel aperture but does not seal the assembly.



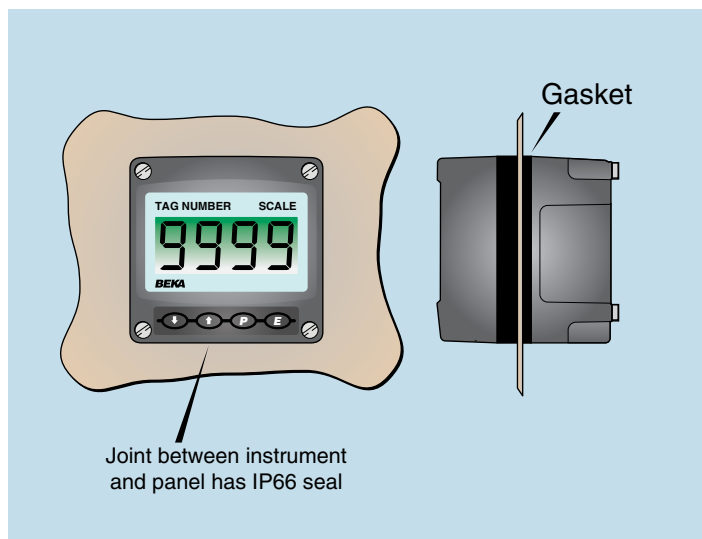
BA496G SURFACE MOUNTING KIT



The **BA496G surface mounting kit** enables a BEKA 'G' GRP or Stainless Steel field instrument to replace a surface mounting BEKA 'E' or 'D' field mounting instrument using the existing surface mounting holes.

BA494G sealing panel mounting kits

Secures 'G' instrument in a panel aperture and seals the panel.



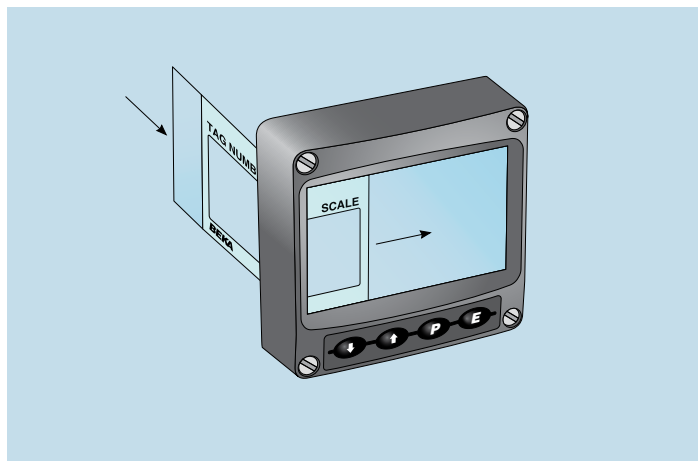
BA494G for a GRP enclosure

BA494G-SS for a stainless steel enclosure.



'G' instrument panel mounted using BA494G panel mounting kit

SLIDE IN SCALE CARD



All 'G' suffix field and panel mounting instruments have a slide-in scale card which can accommodate scale and tag marking. If requested the instrument can be supplied with the scale card printed to show customer specified units of measurement, tag and application information.

EXTERNAL STAINLESS STEEL LEGEND PLATE

For customers requiring traditional labelling, 'G' instruments can be supplied with a laser etched stainless steel legend plate showing customer specified information.



Accessories for PANEL mounting instruments

'E' suffix, Rugged and A90 meters

SLIDE IN SCALE CARD

A slide-in scale card can be fitted without removing the instrument from the panel or opening the instrument enclosure. A customer specified scale card is a no cost accessory when an 'E' or Advisor instrument is ordered. A pack of 30 scale cards pre-printed with common legends is available for on-site configuration.



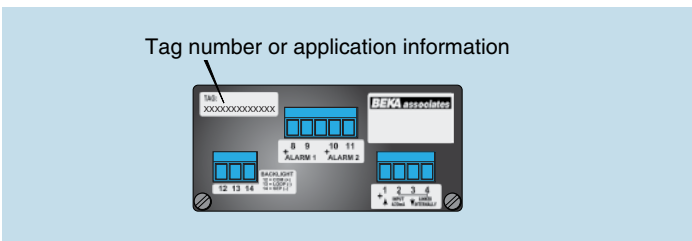
Scale card for 'E' suffix instruments is inserted from the rear of the instrument.

%	%RH	°C	°F	A
bar	barg	FT	FT-LBS	gal
in.wg	kg	kg/h	kPa	Litres
L/h	L/min	L/s	m³/h	mbar
mbarg	Pa	pH	psi	rpm
SPM	t/h	tonnes		

Pre-printed scale cards

TAG NUMBER

Customer specified tag number or application information can be thermally printed or laser etched onto the instrument rear panel adjacent to the terminals.



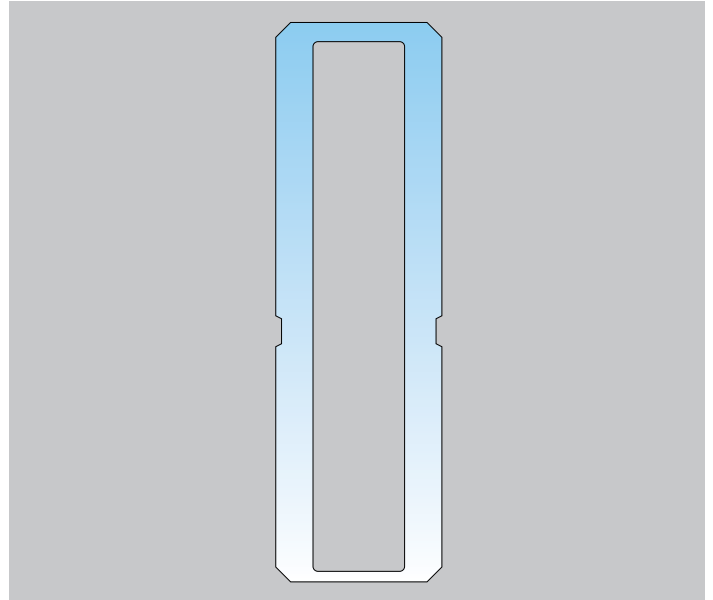
Tag number or application printed on rear panel of instrument.

All instruments can typically accommodate up to 2 rows of 18 characters

BA326C and BA526C Combined Indicators

SCALE CARD

The factory fitted internal scale card can be printed with a customer specified scale for the analogue bargraph and with the units of measurement for the digital display.

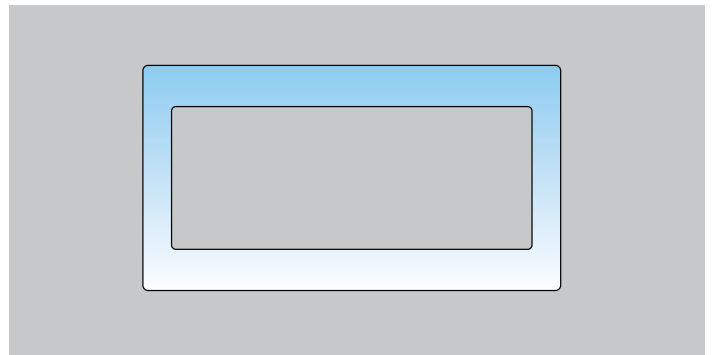


Scale card can be printed with customer specified bargraph scale and units of measurement.

Fieldbus Indicators & Indicating Temperature Transmitters

SCALE CARD

Panel mounting Indicating Temperature Transmitters and Fieldbus indicators have an internal scale card around the display which can be supplied printed with customer specified application information.

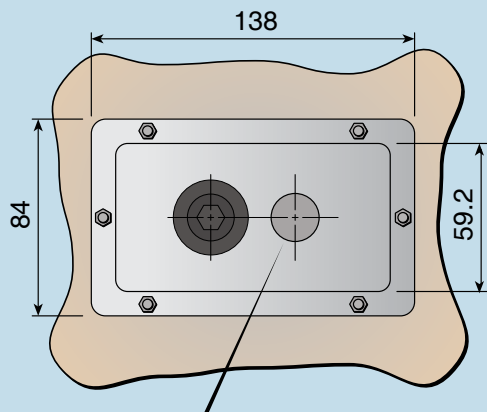


Scale card can be printed with customer specified information.

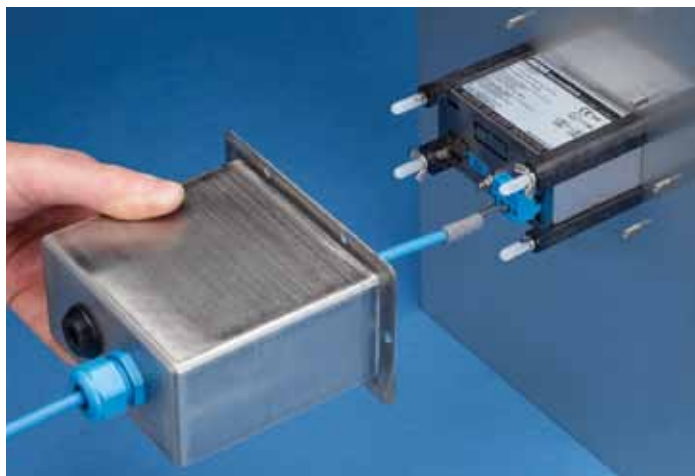
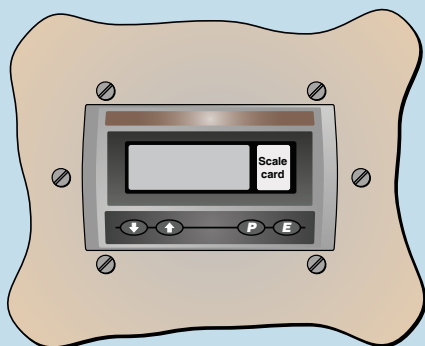
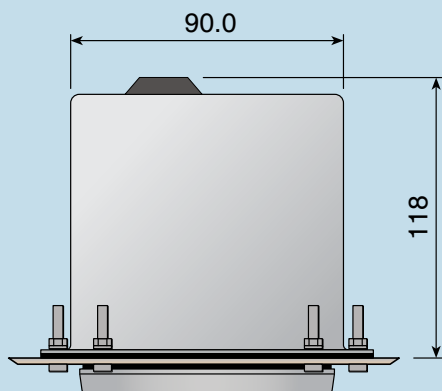
For 96 x 48mm, Rugged 'E' suffix and A90 panel meters

REAR COVER AND SEALING KIT

The BA495 rear cover and sealing kit provides impact and IP66 ingress protection for a single 96 x 48mm or a 105 x 60mm rugged instrument. The 316 stainless steel rear cover has two M20 cable entries, one fitted with a blanking plug. *Note: cannot be used with stainless steel support plate.*



2 M20 entries, 1 fitted with blanking plug



BA495 rear IP66 sealing kit



Gasket provides IP66 seal to panel

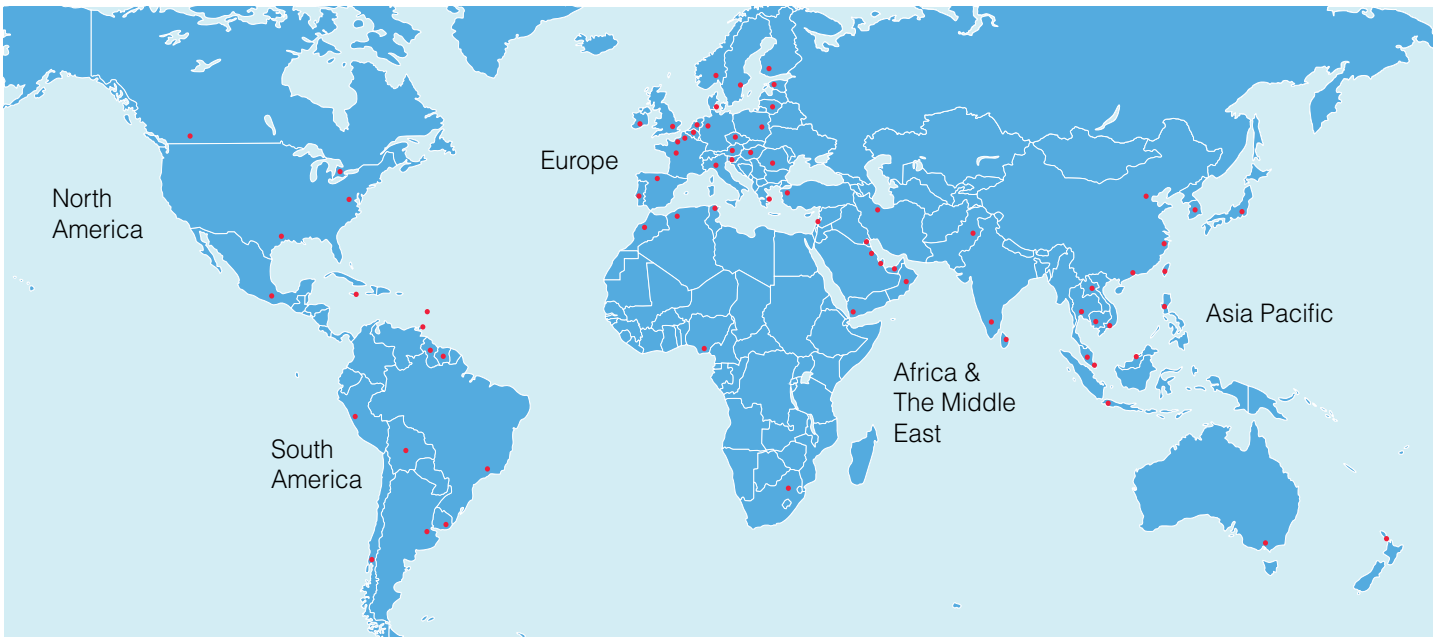
Why Buy **BEKA**



- > *Three-Year warranty on all products*
- > *Fast manufacturing times, typically 3-5 working days*
- > *Widest range available of hazardous area indicators and displays*
- > *International certifications for global applications*
- > *High reliability products for hazardous areas and general purpose applications*
- > *Privately owned by engineers designing products for engineers since 1984*
- > *Direct telephone or email contact to sales team and knowledgeable engineers*
- > *Excellent customer support pre and post sales*
- > *World-wide support network of agents and distributors*
- > *Set-up and scale printing on most models for no additional charge*
- > *Comprehensive website and easy access to all documentation*

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