

total capability for intelligent displays and indicators



for use in safe and hazardous areas



Modbus-IDA
the architecture for distributed automation

BEKA

associates

visit our website www.beka.co.uk

intelligent displays eight variables

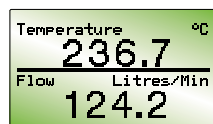
If you need to display process variables, text and simple graphics, or require a low cost operator interface in a safe or hazardous area, BEKA has an intelligent display just right for your application and protocol.

Field and panel mounting models are available for use in safe and hazardous areas with Profibus PA, FOUNDATION fieldbus™, Modbus or simple ASCII protocols. Each instrument can display up to eight process variables on a high contrast backlit display using one of nine standard display screens, or custom screens can be developed.

- Large high contrast easy to read display with backlight
- FOUNDATION fieldbus™, Profibus PA, Modbus or simple ASCII protocols
- Displays up to eight process variables on one of nine selectable screen formats, or custom screen formats may be developed using free software.
- Push-buttons for operator acknowledgements with provision for connecting large external switches.
- Isolated switch outputs
- Robust IP66 GRP field mounting models
- Panel mounting models with IP66 front
- ATEX, IECEx and FM certified Intrinsically Safe models
- FM certified nonincendive models

Applications

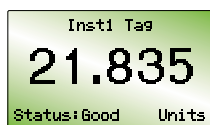
- Display of up to eight process variables in a hazardous or safe area.
- Operator messaging and acknowledgement.
- Setpoint adjustment
- Recipe selection
- OEM applications – weighing, machine monitoring



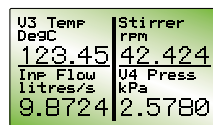
Two variables



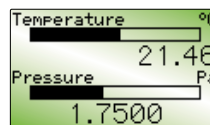
One variable + vertical bargraph



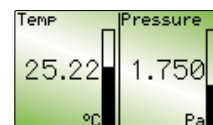
One variable



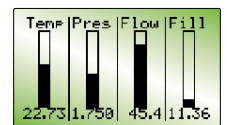
Four variables



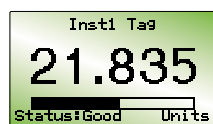
Two variables + horizontal bargraphs



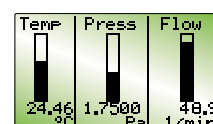
Two variables + vertical bargraphs



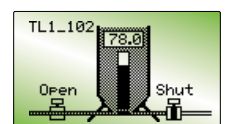
Four variables + vertical bargraphs



One variable + horizontal bargraph

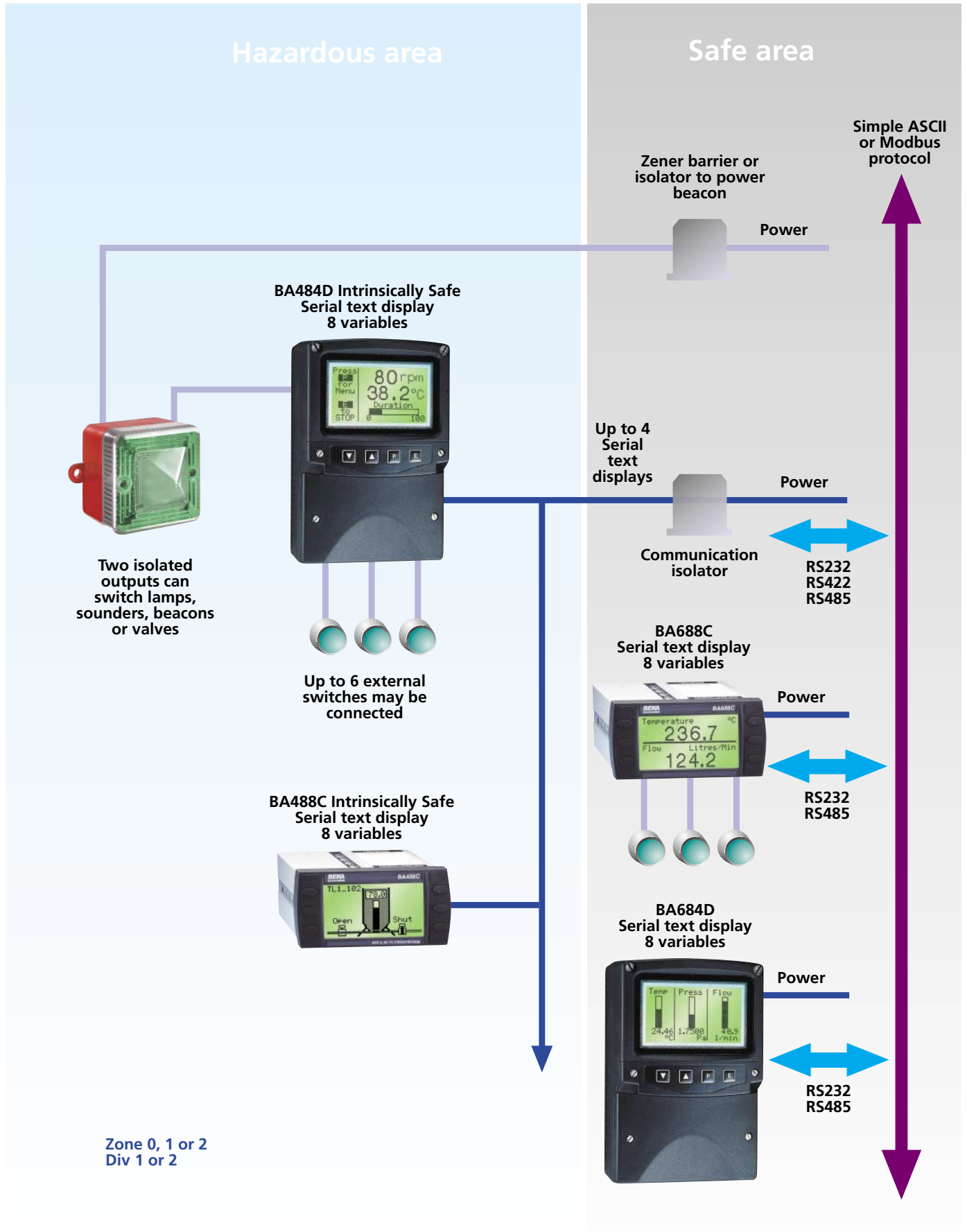


Three variables + vertical bargraphs



Typical custom screen

One of nine standard screen formats may be selected or custom screens can be developed



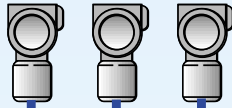


FOUNDATION Fieldbus™ Profibus PA

Hazardous area

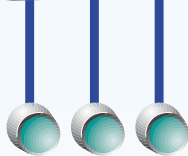
All models can be supplied with 6 alarm outputs

BA488CF Intrinsicly Safe Fieldbus display 8 variables



Junction box

BA484DF Intrinsicly Safe Fieldbus display 8 variables



Up to 6 external switches may be connected

Zone 0, 1 or 2
Div 1 or 2

Safe area

Intrinsicly Safe Fieldbus power supply and segment coupler



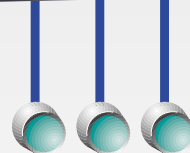
System host

Fieldbus power supply and segment coupler



H1

BA688CF Fieldbus display 8 variables



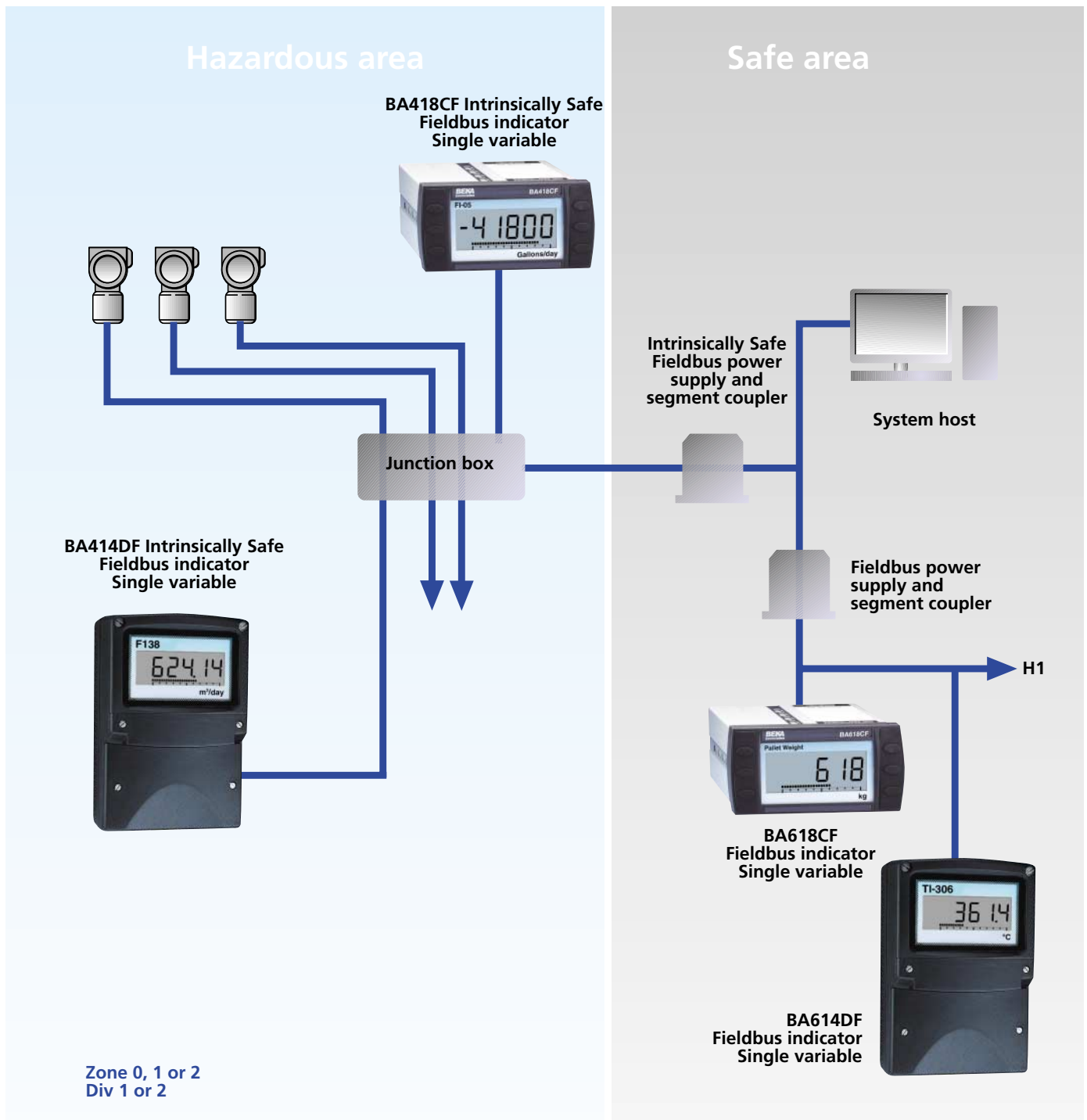
Up to 6 external switches may be connected



BA684DF Fieldbus display 8 variables

fieldbus indicators single variable

- Low cost solution when only one displayed variable is required
- 5 digit 20mm high display plus 31 segment bargraph
- FOUNDATION fieldbus™
- Fieldbus powered, 13mA
- ATEX, FM & IECEx intrinsically safe models
- ATEX type nL for Zone 2 applications
- Robust IP66 GRP field mounting enclosure
- Panel mounting enclosure with IP66 front



intelligent display & indicator models



Serial Text Displays – 8 variables *Simple ASCII Modbus*

Model	Mounting	Certification	Interface	Port	Protocol
BA484D	Field	ATEX II 1G or II 1GD T80C IP66 EEx ia IIC T5 FM IS CI I II III, Div 1, Gp ABCDEFG NI CI I, Div 2, Gp ABCDEFG	BEKA BA201 or MTL5051	RS232 RS422 RS485	Modbus or Simple ASCII
BA488C	Panel	ATEX II 1G EEx ia IIC T5 FM IS CI I, Div 1, Gp ABCD NI CI I, Div 2, Gp ABCD			
BA684D	Field	Safe area only	Not required	RS232 or RS485	
BA688C	Panel	Safe area only	Not required		

Fieldbus Displays – 8 variables *FOUNDATION Fieldbus™ Profibus*

Model	Mounting	Certification	Protocol
BA484DF	Field	ATEX II 1G or II 1GD T125C IP66 EEx ia IIC T4 IECEX FM IS CI I II III, Div 1, Gp ABCDEFG NI CI I, Div 2, Gp ABCDEFG FISCO & FNICO compliant	FOUNDATION fieldbus™ or Profibus PA
BA488CF	Panel	ATEX II 1G EEx ia IIC T4 IECEX FM IS CI I, Div 1, Gp ABCD NI CI I, Div 2, Gp ABCD FISCO & FNICO compliant	
BA684DF	Field	Safe area only	
BA688CF	Panel	Safe area only	

Fieldbus Indicators – single variable *FOUNDATION Fieldbus™*

Model	Mounting	Certification (pending Summer 06)	Protocol
BA414DF	Field	ATEX II 1G or II 1GD T125C IP66 EEx ia IIC T4 IECEX FM IS CI I II III, Div 1, Gp ABCDEFG NI CI I, Div 2, Gp ABCDEFG FISCO & FNICO compliant	FOUNDATION fieldbus™
BA414NDF	Field	ATEX II 3G or II 3GD T125C IP66 EEx nL T4 FNICO compliant	
BA418CF	Panel	ATEX II 1G EEx ia IIC T4 IECEX FM IS CI I, Div 1, Gp ABCD NI CI I, Div 2, Gp ABCD FISCO & FNICO compliant	
BA614DF	Field	Safe area only	
BA618CF	Panel	Safe area only	