

The digital indicator D122 indicates measured values of intrinsically safe current circuits from 4 up to 20 mA in hazardous areas. The device is powered by measure circuit, therefore an extra power supply or batteries are unnecessary. The indicator measures the current, scales the measured value and displays finally the result on the LCD. The internal 24 bit A/D conversion achieves a stable indication even at 4 1/2 digit resolution. For trend analysis, the measured signal is also displayed on a 41 segment bargraph. It's possible to scale the bargraph separately.


The indicator D122 is available in several housings. Furthermore with alarm monitoring option the indicator has two intrinsically safe alarm outputs. These outputs change their state, when the measured value exceeds its alarm limits. It is possible to configure the outputs as normal open or normal closed circuits. Additional the alarm limits appear graphically on a second bargraph. On one look you're sure that the measured value is in its limits. There's also the possibility to use the display as "counter" which gives the sum of the measured values (type D122.Z)


Ergonomics:

- μ -processor technology for extensive configuration
- scaleable by keyboard and display, without reference current
- separately scaleable bargraph (zoom)
- current control button
- keeps the configuration by turn off
- ability to change configuration during operation
- exchangeable dimension signs

Specifications

Protection	Front panel up to IP55 - with sealed keyboard IP65
Housing	According to control panel standard DIN43700
Material housing	- panel housing : glass fibre reinforced noryl - field housing : ABS
Decimal points	selectable by keyboard
Limit monitoring	By means of intrinsically safe control circuits (e.g. NAMUR or DIN19234)
Alarm limits display	via bargraph, flashing 'max.' or 'min.' display (only types A.0, A.3 en A.5)
Measurement circuit limits	see certificate TÜV99ATEX1488
Alarm terminal limits	see certificate TÜV99ATEX1488
Measurement circuit	intrinsically safe measurement circuit 4-20 mA, voltage drop ca. 1V
Current control button	direct display of the current in measurement circuit
Symbols	selectable with defined symbols
Temperatuurscoëfficient	< 0,01 % of measure range / K
Ambiant temperature	-10°C - +45°C

 II 2 (1) G Ex ib [ia Ga] IIC T6 Gb

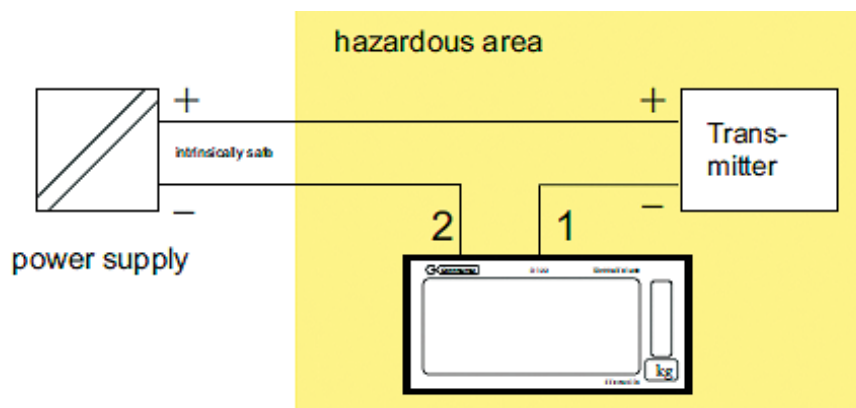
 II 2 (1) D Ex ib [ia Da] IIIC T135°C Db

Zone 0	✗	Zone 20	✗
Zone 1	✓	Zone 21	✓
Zone 2	✓	Zone 22	✓



On request

- alarm monitoring: two intrinsically safe alarm outputs
- additional limit bargraph
- limit function with hysteresis and time delay
- normal open or normal closed circuit principle
- curve fitting
- ambient temperature -20°C - +60°C





7 Man - machine interface

1 Digital indicator

1 D122 series

Ordering data

Code	Description	Housing	Digital height	Display indication	Display range	Bargraph	Digital output	Suitable for Zone 21 and 22
D122.A.0.0	indicator	panel housing	15 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments		✗
D122.A.0.2	indicator	panel housing	15 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments	with 2 digital outputs	✗
D122.A.0.3	indicator	panel housing	15 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments	with reset input and pulse output	✗
D122.A.3.0	indicator	panel housing	30 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments		✗
D122.A.3.2	indicator	panel housing	30 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments	with 2 digital outputs	✗
D122.A.3.3	indicator	panel housing	30 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments	with reset input and pulse output	✗
D122.A.5.0	indicator	field housing	30 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments		✗
D122.A.5.2	indicator	field housing	30 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments	with 2 digital outputs	✗
D122.A.5.3	indicator	field housing	30 mm	4 1/2-digits 7-segment LCD	-19999 ... +19999	41 segments	with reset input and pulse output	✗
D122.A.6.0	indicator	field housing	50 mm	3 1/2-digits LCD	-1999 ... +1999			✓
D122.A.6.2	indicator	field housing	50 mm	3 1/2-digits LCD	-1999 ... +1999		with 2 digital outputs	✓
D122.A.6.3	indicator	field housing	50 mm	3 1/2-digits LCD	-1999 ... +1999		with reset input and pulse output	✓
D122.Z.0.0	totalizer	panel housing	15 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments		✗
D122.Z.0.2	totalizer	panel housing	15 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments	with 2 digital outputs	✗
D122.Z.0.3	totalizer	panel housing	15 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments	with reset input and pulse output	✗
D122.Z.3.0	totalizer	panel housing	30 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments		✗
D122.Z.3.2	totalizer	panel housing	30 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments	with 2 digital outputs	✗
D122.Z.3.3	totalizer	panel housing	30 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments	with reset input and pulse output	✗
D122.Z.5.0	totalizer	field housing	30 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments		✗
D122.Z.5.2	totalizer	field housing	30 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments	with 2 digital outputs	✗
D122.Z.5.3	totalizer	field housing	30 mm	5-digits 7-segment LCD	00000 ... +19999	41 segments	with reset input and pulse output	✗



7 Man - machine interface

1 Digital indicator

1 D122 series

Dimensional sketches

