

# Set-point-transmitter

## D122.T

Loop powered  
Gas + Dust Ex- protection  
TÜV 99 ATEX 1488



### Properties

#### 👍 Loop powered Ex i- set-point transmitter

- Loop powered - trouble-free use in hazardous areas, without a separate power supply
- Connecting like common transmitters
- Voltage range: 8 ..30 V

#### 👍 Gas and Dust Explosion proof

- II 2 (1) G, Ex ia IIC T6 Gb
- II 2 D, IP65 T 70°C Db

#### 👍 Display

- 4½- digits 7-Segment display
- Span: 2000 Digits
- LC-Display, with 30 mm digit height
- bargraph (41 segments, 4 Hz refresh rate)

#### 👍 Housings

- Short control panel housing, protection class IP 55
  - (HxWxD) 72x144x80
- Field housing, protection class IP 65
  - (HxWxD) 133,5x138x64
- Field housing, dust Ex- proofed
  - (HxWxD) 140x140x72

#### 👍 Ergonomics

- µ-Processor technology for extensive configuration
- Separately scaleable bargraph (Zoom)
- Current control button
- Keeps the configuration by turn off
- Ability to change configuration during operation
- Exchangeable dimension signs

#### 👍 Service

- Customized calibration



### Description

The D122.T is a set-point transmitter e.g. to provide a set point, e.g. like temperature, pressure or revolution, inside the hazardous area to a DCS units located in safe area, via a 4..20 mA current signal.

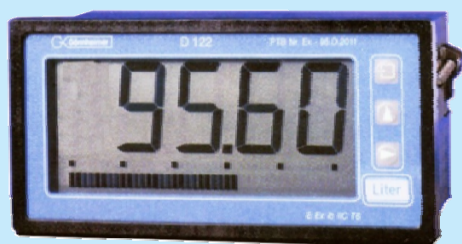
The scale span of the transmitter is up to 2000 digits. An additional power supply is not necessary, because the D122.T will be looped like a transmitter into the circuit of a transmitter power supply.

The indicated value is the real measured current in the control circuit - it is not just a static display. So, the user has control of the transmitted set-point. Pressing the current control button indicates the unscaled physical current in dimension mA.

Using an additional D122.A it is possible to indicate the real value of a feedback control system. So a hazardous area located simple process visualisation of a feedback control system based on a high level control unit, located in safe area, can be realised.

## Product photos

### Short control panel housing

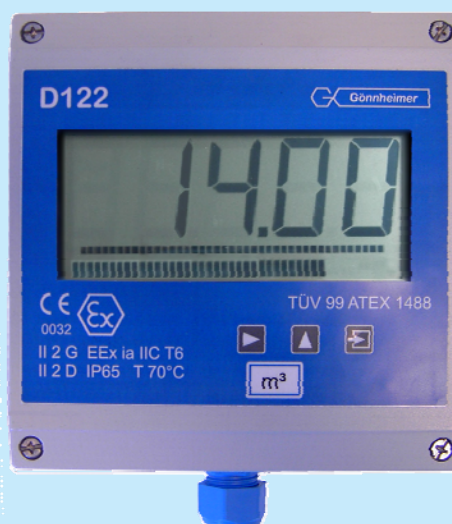


Digital Indicator D122.A.3.x.x

### Field housing

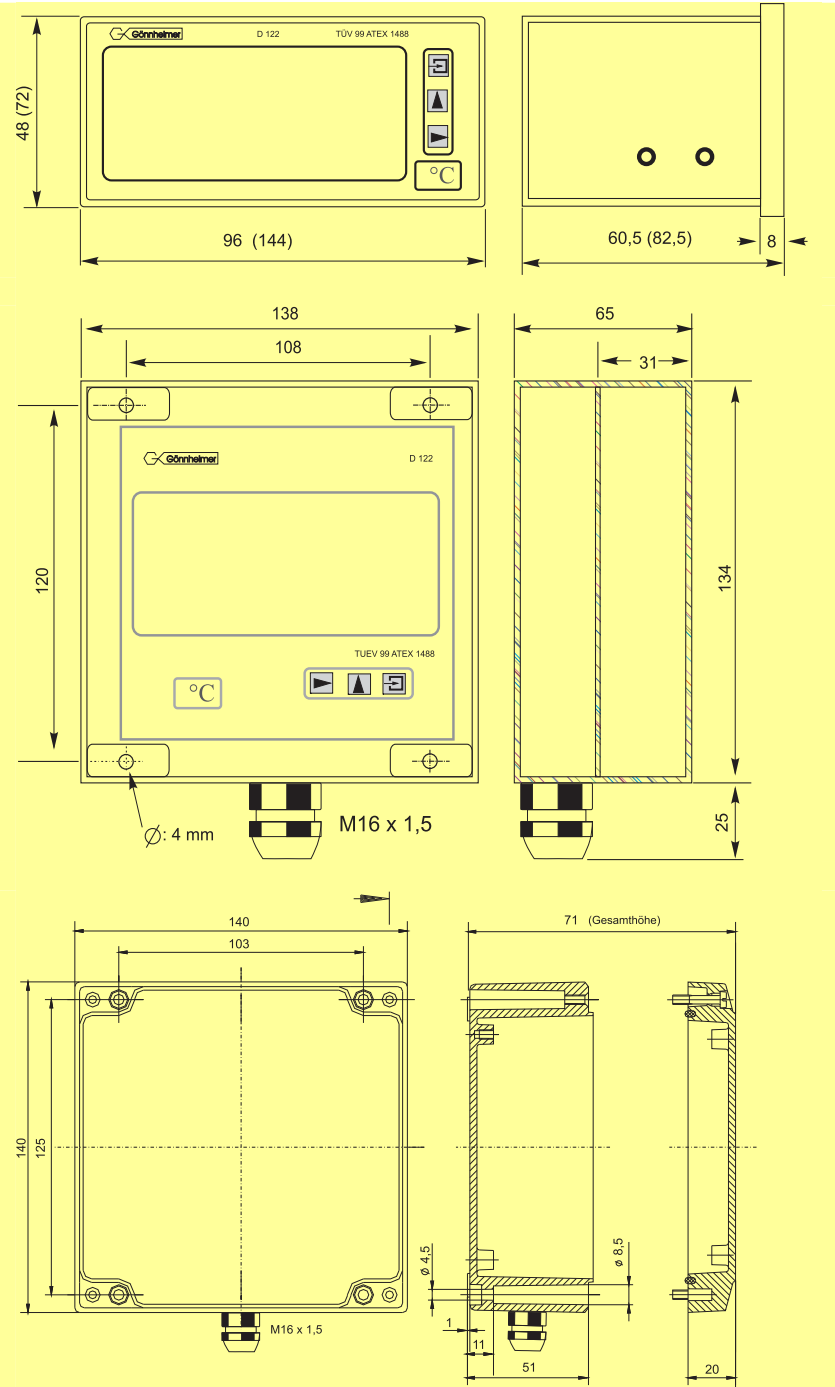


Digital Indicator D122.A.5.x.x



Digital Indicator D122.A.7.x.x

Dimensions



Set- point- transmitter D122.T.3.x.x  
(bracketed dimensions are valid)

Set- point- transmitter D122.T.5.x.x

Set- point- transmitter D122.T.7.x.x

## Technical Details

	D122.Z.		
	D122.Z.3	D122.Z.5	D122.Z.7
Ex- Protection	II 2 (1) G, Ex ia IIC T6 Gb		See left + <b>Ex tb IIIC IP65 T70°C Db</b>
EC- type certificate	TÜV 99 ATEX 1488		
Display	4½- digits seven-segment LCD		
Digit height	30mm		
Display range	00000 ... +19999 (Span: 2000digits)		
Dimensions symbols	Selectable with defined symbols		
Decimal points	Selectable by keyboard		
Bargraph	41 segments		
Control circuit	Intrinsically safe 4 .. 20 mA; Voltage range: 8 .. 30 V; Voltage drop ca. 8V		
Current control button	Direct display of the current in measurement circuit		
Housing	control-panel std. DIN 43700	-	
Protection class	Front panel up to IP 55	IP 65	
Dimensions HxWxD [mm]	72x144x80	133,5x138x64	140x140x72
Panel cut out	66 x 136,5	/	
Material	glass fiber strengthened Noryl	ABS	Aluminum
Measuring error	0,1% ± 2 digits referring to measure range		
Temperature coefficient	< 0,01% of measure range / K		
Ambient temperature limit	-10°C ...+45°C for temperature class 6 or -10°C ...+60°C for temperature class 5 Indicators for -20°C ambient temperature on inquiry		

## Type code D122.T

### Digital indicator D122

#### Type:

Totalizer ..... .T

#### Housings:

Control panel housing 72 x 144 mm (II 2 G) .... .3

Field housing (30 mm digit height) (II 2 G) ..... .5

Field housing 140 x 140 for (II 2 GD) ..... .7

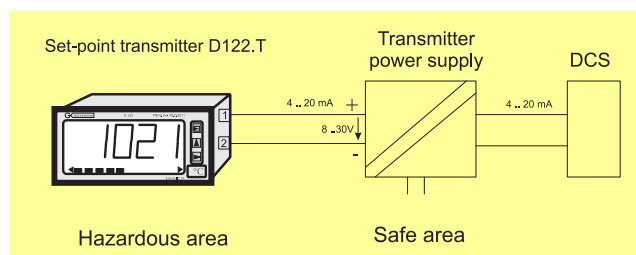
#### Digital output terminals:

none ..... .0

#### Additional Options:

None..... .0

## Connection diagram



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