

# Klinger Kompakt 401

## Pressure Transmitter

Klinger Kompakt 401 is a family of pressure transmitters intended for standard tasks within all types of industry.

The transmitter can be delivered in measuring ranges from 10 mbar up to 1,000 bar with an accuracy better than 0.5%.

As standard the Output signal are 4...20 mADC, but we can also deliver the transmitter in a SMART version with HART protocol.

### Sensor with temperature compensation

The sensor is a semiconductor element in a Wheatstone bridge, mounted on a ceramic support plate.

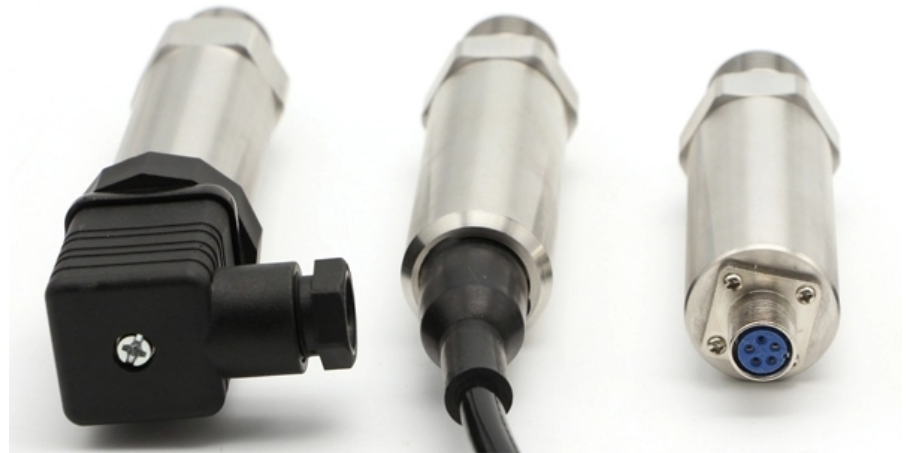
The sensor are temperature compensated on the ceramic element with a circuit that equalizes temperature operation in the range -10 to +70 ° C.

### Calibration Certificate

We have standardized our delivery program in ranges defined in EN 837-1, but the transmitter can be adjusted to every measuring range you want, and will be delivered together with a calibration certificate (5 points) accordingly to the selected measuring range.

If you choose Klinger Kompakt 401 for your next measurement task you get:

- A robust transmitter with large flexibility.
- Documented accuracy in a wide measuring range
- Attractive pricing.



Klinger 401B can be delivered with display.

### Klinger Kompakt 401 for your next Application:

- Adjustable Ranges from 10 mbar to 1,000 bar (also vacuum).
- High Accuracy, Standard 0.5% (Option 0.2% or 0.1%).
- Temperature compensated Sensor
- Wetted Parts Stainless Steel.
- Can be delivered with Display.

## Technical data

<b>Design:</b>	Compact transmitter in Stainless housing	
<b>Materials/housing:</b>	Stainless steel 1.4301 (304)	
<b>Ingress protection:</b>	IP 65 acc. EN 60529 M12 conn.: IP 67 acc. EN 60529	
<b>Electrical Connection:</b>	Plug: Hirschmann (DIN 43650) Cable (PVC) / 1 meter standard M12x1 (4 pin)	
<b>Weight:</b>	240... 320g	
<b>Process Connection:</b>	G 1/2 B per DIN EN 837-1 M20*1.5	
<b>Wetted Parts:</b>	Stainless Steel 1.4301 (304) Stainless Steel 1.4404 (316L)	
<b>Sensor:</b>	Solid State w. temperature compensation (-10 .. 70 °C)	
<b>Ranges:</b>	Sensor 1 (low pressure)	10 mbar ... 40 mbar
	Sensor 2 (standard)	40 mbar ... 100 bar
	Sensor 3 (high pressure)	100 bar ... 1.000 bar
	Actual Range will be adjusted within the above limitations.	
<b>Over Pressure:</b>	150% FS	
<b>Accuracy:</b>	(Lin./Hyst./Rep.) ≤ 0.5 % of adjusted Range optional: ≤ 0.1 % or 0,2%	
<b>Output:</b>	4...20 mA / 2-wire	
<b>Power supply:</b>	24VDC (10...30 V DC)	
<b>Temperature:</b>	Ambient: -20...85 °C Media: -20...85° C * Storage: -40...125 °C	
<b>Ex-approval:</b>	Option:	Intrinsically safe type Ex iaIICT4 Flameproof safe Ex dIICT6
<b>Accessories:</b>	Display (LCD / LED)	

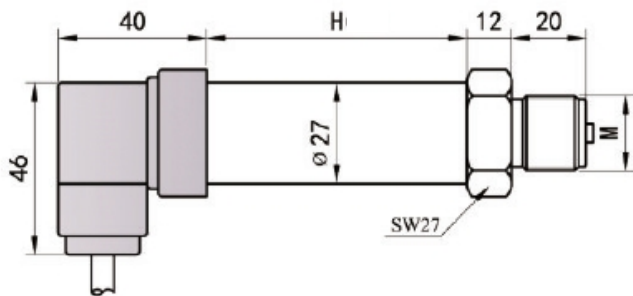


## Dimensions

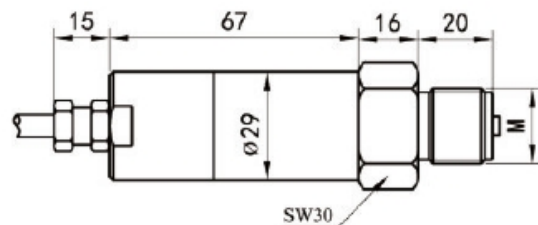
### Standard type

Wetted parts: SUS 304 or SUS 316L

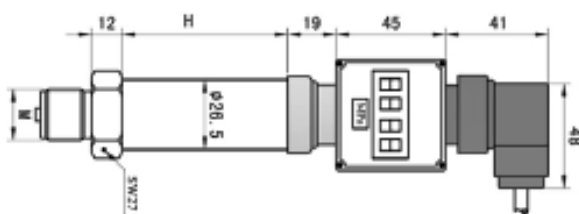
Weight: 240g ... 320g (Depends on Product type)



DIN 43650 (EN 175 301-803-C)



Cable Connection



DIN 43650 and display



M12 Connector and Ex-version

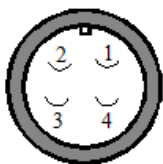
### Note

H depends on the selected type, can vary between 48mm and 75mm

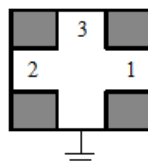
**Standard:** H = 68mm.

## Elektrical Connection

M12 Connector



DIN 43650 (EN 175 301-803-C)



Mode	Output	Pin	Function	Color
2 wire	4-20mA	1	E+ 24V DC	Red
		2	S 4-20mA	Blue
3wire	0-10Ma, 0-5V	1	E+	Red
	4-20mA, 1-5V	2	Ground	White
	0-10V, 0.5-4.5V	3	S+	Blue
4wire	0-5V, 0-10mA 1-5V, 4-20mA 0-10V, mV	1	E+	Red
		2	E-	White
		3	S+	Blue
		⊥	S-	Yellow

## Product Selection

Code	Model, Specification
<b>Klinger Kompakt 401B-</b>	
<b>Range</b>	
Xxx, yyy	Range, Unit: Pa, kPa, MPa,...
<b>Accuracy</b>	
1	0.1%FS
2	0.2%FS
5	0.5%FS
<b>Transmitter type</b>	
A	Absolut Pressure
G	Gauge Pressure
N	Vacuum
<b>Process Connection</b>	
2	M20*1.5-20 Male
6	G1/2-20 Male
9	Other
<b>Electrical Connection</b>	
1	Cable / incl. 1 meter standard
2	Plug: Hirschmann (DIN 43650)
6	Plug: M12x1
<b>Output</b>	
E	4-20mA (1-5V)
<b>Power Supply</b>	
2	24VDC
9	Other
<b>Display</b>	
	Option
M3	3 1/2 LCD Display
M4	3 1/2 LED Display
M5	LCD intelligent display
<b>Ex Approval</b>	
	Option
i	Intrinsically safe type Ex iaIICT4
d	Flameproof safe Ex dIICT6

### Sample Code::

Pressure Transmitter, Range 0...10bar / 4...20mA w. G 1/2" Connection and Valveplug

**Product Selection: 401B - 10Bar - 5 - G - 6 - 2 - E - 2**

