# Indicator for panel mounting Model 910.70

WIKA data sheet SP 20.02

## **Applications**

- General plant construction
- Machine building
- Test benches
- Level measurement
- Process industry

## **Special features**

- Dial indicator, readable from a distance, for 4 ... 20 mA analogue current signal
- Suitable for all sensors with current output, irrespective of the measurand
- Optical signal if the sensor signal fails
- 4 ... 20 mA output signal (option)



Indicator for panel mounting, model 910.70

#### **Description**

The model 910.70 has been developed specifically for the display of sensors with a 4 ... 20 mA output signal in industrial environments.

The design of the indicator with dial and case matches that of a mechanical pressure gauge. The standardised input signal of the indicator enables the connection of a variety of sensors, irrespective of their measurand (e.g. pressure, temperature or flow).

For demanding applications, e.g. with high medium temperatures and critical media, the model 910.70 can be used in combination with a diaphragm seal system, consisting of a pressure sensor and diaphragm seal.

After the connection to the voltage supply, the independent initialisation of the indicator is carried out.

The green LED indicates the readiness for operation. If the LED flashes red, the output signal is either above or below the scale range. In the event of a loss of current, the LED goes out and the pointer drops below the scale.

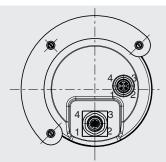
The model 910.70 offers an optional 4 ... 20 mA output signal for the transmission of process values to a control room. This analogue output does not need any initialisation and gives the corresponding value as a 4 ... 20 mA signal.



# **Specifications**

Model 910.70				
Indicator				
Principle	A digitally controlled stepper motor drives the pointer shaft			
Dial	White, black lettering			
Scale range	270°			
Measuring time	Max. 30 % of full scale / s			
Sensor input				
Input signal	4 20 mA, 2-wire			
Electrical connection	Circular connector M12 x 1, 4-pin; nickel-plated brass			
Accuracy	0.75 % of measuring span			
Voltage supply				
Power supply U <sub>S</sub>	DC 14 30 V, max. 0.2 A			
Electrical connection	Circular Connector M12 x 1, 4-pin			
Output signal				
Output signal	4 20 mA, 2-wire, passive, galvanically isolated			
Permissible max. load R <sub>A</sub>	$R_A \leq (U_B$ - 12 V)/0.02 A with $R_A$ in $\Omega$ and $U_B$ in V, max. 600 $\Omega$			
Power supply U <sub>B</sub>	DC 12 V< U <sub>B</sub> < 30 V			
Cable				
Power cord	Length: ≤ 5 m [16.4 ft], only use of original cable is permitted			
Sensor cable	Length: ≤ 3 m [9.8 ft], only use of original cable is permitted			
Permissible ambient conditions				
Operating temperature	0 60 °C [32 140 °F]			
Storage temperature	-25 +70 °C [-13 +158 °F]			
Permissible air humidity	10 95 % r. h. (non-condensing)			
Case				
Material	Stainless steel			
Ingress protection per IEC/EN 60529	IP65/IP67			
Weight	Approx. 365 g [12.9 oz]			
Mounting	With mounting bracket			

## Wiring



### **Analogue output (optional)**

Connector: Connection for power cord (4-pin)

#### Cable assignment

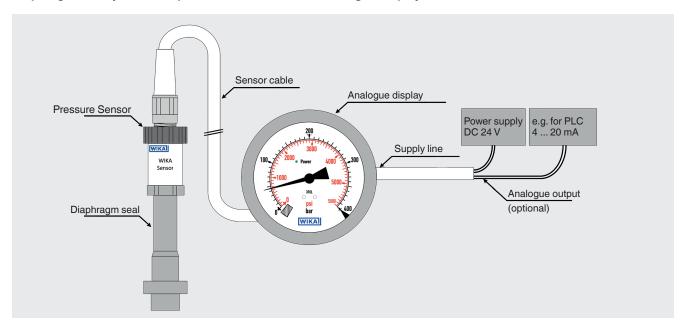
Pin	Function	Wire colour
1	Analogue output (+)	BN
2	Power supply (DC 14 24 V)	WH
3	Analogue output (-)	BL
4	Power supply (GND / 0 V)	BC

#### **Sensor input**

Female connector: Connection for sensor cable (4-pin)

# Installation example

#### Diaphragm seal system with pressure transmitter and analogue display



## **Approvals**

Logo	Description	Country
C€	EU declaration of conformity  ■ EMC directive  ■ RoHS directive	European Union

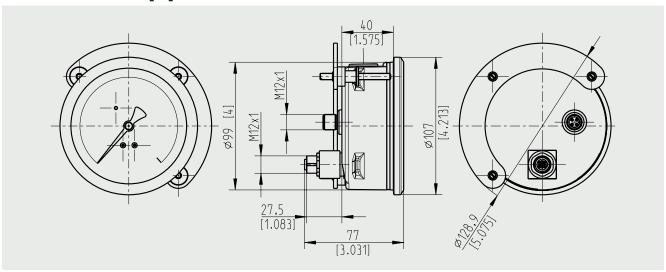
Approvals and certificates, see website

## Dial markings and LED status

Dial status	Description	Operating status
10 Power 15 80 80 100 WIKA	Power LED lights up green. Pointer is within the scale.  Analogue output is in the range of 4 20 mA	Normal operation
20 15 316L 20 100 WINA	Power LED flashes green. Pointer is below the scale.  Analogue output in the range of 4 20 mA	After switching on the analogue display, an initialisation process is performed. Wait 5 seconds.
40 15 80 80 100 WINAL	Power LED flashes red. Pointer is above the full scale value.  Analogue output: > 20 mA	The sensor signal is between 20.5 21 mA <sup>1)</sup> . Error signal is suppressed for a few seconds.  Check sensor.
20 15 80 80 100 WIEA	Power LED flashes red. Pointer is below the scale.  Analogue output: < 4 mA	Sensor signal is < 3.6 mA <sup>1)</sup> Error signal is suppressed for a few seconds.  Check sensor cable and sensor.
40 11 50 10 10 15 80 20 100 WIKAI	Power LED does not light up. Pointer is below the scale.  Analogue output: > 21 mA	Check power supply

<sup>1)</sup> In accordance with recommendation NE43 of NAMUR (international user association of automation technology in process industries)

# Dimensions in mm [in]



#### **Ordering information**

Model / Scale range / Output signal / Accessories

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