

Ultra High Purity Attachable indicator with LED Model WUR-1

WIKA Data Sheet PE 87.20

Applications

- Semiconductor and flat panel industry
- Microelectronic Technology
- Gas distribution systems (Gas sticks, gas panels, bulk-gas supply)

Special features

- Top View or Front View
- Up to 2 Switch points freely programmable
- Ingress protection IP65
- 5 different units manually adjustable



Fig. left WUR-1, Top View Fig. right WUR-1, Front View

Description

Dynamic

An unique solution for a local display of the process pressure offers the attachable indicator model WUR-1. With this especially for the UHP-Market designed indicator a signal and freely adjustable switch points can be transmitted simultaneously.

Due to its universal programmability and simple mounting the attachable indicator can also be easily installed on pressure transmitters which are already in use. Its scale can be fully adjusted directly on site without master instrument.

Unit (psi, bar, kPa, MPa and kg/cm²), decimal point, display range, zero point and switch points can be adjusted via the control keys.

Comfortable

Power is directly supplied by the 4 ... 20 mA-loop, i.e. no extra power supply is required.

Practical

The seven millimetre high, red LED display is easy to read. In order to be able to adapt the indicator to the application, it is available in two different versions; Front View (connection to the transmitter at the bottom) or Top View (connection to the transmitter at the back).

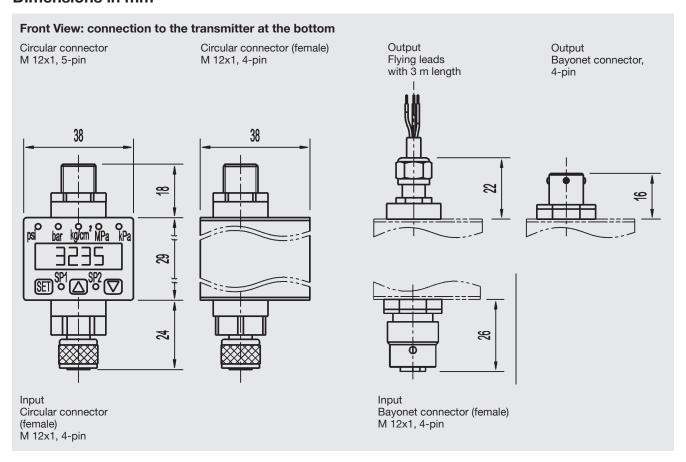


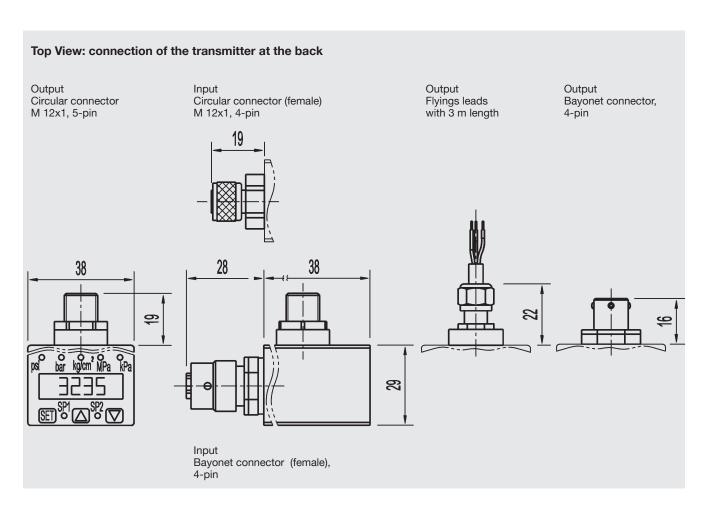
Specifications		Model WUR-1	
Display			
■ Design		7-Segment-red LED, height 7 mm, 4-digit	
■ Range		-999 6000	
■ Accuracy	% of span	≤ 0.5 ± 1 digit	
Materials case	7,5 51 5,550	ABS	
Scaling adjustment		Menu-driven programming via external control keys	
		Adjustable measuring range	
		Adjustable decimal point	
		Programmable pressure units: bar, psi, kg/cm², MPa, kPa	
		Zero point freely adjustable within a range of ±10 % of the span	
Signal input	mA	4 20, 2-wire (supplied by the current loop, 6 V voltage load)	
olgilai iliput	V	0.1 5.1, 3-wire / 0.1 10.1, 3-wire	
Signal output	•	Analogue signal is directly looped through	
oignai output		(4 20 mA or 0.1 10.1 V or 0.1 5.1 V)	
Max. permissible input	mA / VDC	± 40 (short-time)	
Power supply UB	VDC	16 30 at 4 20 mA; 15 30 at 0.1 10.1 V	
Fower supply OB	VDC	10 30 at 0.1 5.1 V	
Influence of power supply	%	< 0.1 / 10 V	
	70		
Switch points		Individually adjustable via external control keys	
Number		{bayonet connector: 1 x NPN Open-Collector}	
- F P		galvanically isolated switch points at 4 20 mA	
■ Function		Normally open / Normally closed	
■ Adjustment	24 6	Freely adjustable within a range of 1 99 % of the span	
■ Temperature error	% of span	< 0.1 / 10 K	
■ Accuracy	% of span	≤ 0.5 ±1 digit	
■ Max.switching current	mA	300 (None-inductive)	
■ Display of switch status		LED	
■ Response time (10 90 %)	ms	< 15	
■ Hysteresis	%	0.5 (fixed)	
Permissible temperature range			
■ Ambient		-30 +85 °C / -22 +185 °F	
■ Storage		-30 +85 °C / -22 +185 °F	
■ Compensated		-20 +80 °C / -4 +176 °F	
Temperature error	% of span	< 0.1 / 10 K	
CE-conformity		Interference emission and Interference compatibility see EN 61 326	
		For cable lengths of > 30 m (current) resp. > 3 m (voltage) shielded cables	
		must be used	
Shock resistance	g	100 according to IEC 60068-2-27 (mechanical shock)	
Vibration resistance	g	5 at 10 2000 Hz according to IEC 60068-2-6 (vibration under resonance)	
Wiring protection			
■ Short-circuit proofness		Sig+ towards UB-	
■ Reverse polarity protection		UB+ towards UB-	
Weight	g	50	

 $^{\{\,\}\,}$ Items in curved brackets are optional extras for additional price.



Dimensions in mm







Wiring details

Ingress Protection IP 65 according to IEC 60 529

Trining de laire			3			
Output	Plug- Pin	2-wire Execution current	3-wire Execution voltage			
Circular connector M 12x1, 5-pin						
	1	Power supply UB+, Sig+	Power supply UB+			
40 = 3	2	Switch out1	Switch out1			
*	3	Power supply 0V, Sig-	Power supply 0V, Switch ground, Sig-			
	4	Switch ground (potential-free)	Signal Sig+			
	5	Switch out2	Switch out2			
Flying leads						
	red	Power supply UB+, Sig+	Power supply UB+			
	black	Power supply 0V, Sig-	Power supply 0V, Switch ground, Sig-			
	yellow	Switch ground (potential-free)	Signal Sig+			
	brown	Switch out1	Switch out1			
	orange	Switch out2	Switch out2			
Bayonet connector, 4-pin						
	А	Power supply UB+, Sig+	Power supply UB+			
•A D•	В	Switch ground (potential-free)	Signal Sig+			
•в с•	С	Switch out1	Switch out1			
	D	Power supply 0V, Sig-	Power supply 0V, Switch ground, Sig-			

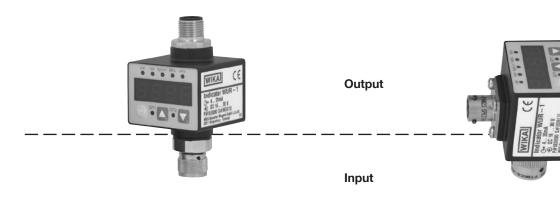


Fig. WUR-1 Front View

Fig. WUR-1 Top View

Input	Plug- Pin	2-wire Execution current	3-wire Execution voltage				
Circular connector (female) M 12x1, 4-pin							
3 0 0 4 20 0 1	1	Power supply UB+, Sig+	Power supply UB+				
	2						
	3	Power supply 0V, Sig-	Power supply 0V				
	4		Signal Sig+				
Bayonet connector (female), 4-pin							
OD AOOO CO BOO	А	Power supply UB+, Sig+	Power supply UB+				
	В		Signal Sig+				
	С						
	D	Power supply 0V, Sig-	Power supply 0V, Sig-				

Modifications may take place and materials specified may be replaced by others without prior notice. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

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WIKA Data Sheet PE 87.20 · 09/2007



WIKA Alexander Wiegand GmbH & Co. KG

Alexander-Wiegand-Straße 30 63911 Klingenberg/Germany Tel. (+49) 9372/132-0 Fax (+49) 9372/132-406 E-mail info@wika.de www.wika.de