



SWE-430L

- ☐ plug-on display for current loop
- ☐ output signal: 4...20mA / 2-wire; 0...10V / 3-wire
- ☐ optional: 1 or 2 programmable contacts
- ☐ 4-digit LED display
- ☐ free scalable display
- ☐ switch mode, hysteresis, parameterizable contacts deceleration
- ☐ display 330° rotatable, connector 300° rotatable
- ☐ no external power supply necessary

The plug-on display SWE-430L has been designed to equip transmitters with analogue output 4...20mA / 2-wire or 0...10V / 3-wire (pressure, temperature etc.) with a digital display. Additional up to 2PNP open collector contacts for a limiting value control can be offered. The plug-on display has to be installed between male and female plug and is ready for work immediately. A preferred area of use is e.g. on-site process monitoring.

TECHNICAL DATA

Analogue signal	
2-wire-system	4 ... 20 mA
3-wire-system	0 ... 10 V
Supply	
2-wire-system	supplied by current loop; voltage drop 6 V; $V_S = (V_{T \min} \dots V_{T \max}) + 6 V_{DC}$ with V_T = supply of the used transmitter
3-wire-system	display is supplied parallel with transmitter $V_{S \min} = 8 V_{DC} \dots V_{T \min}$; $V_{S \max} = V_{T \max} \dots 36 V_{DC}$ with V_T = supply of the used transmitter
Contact (optionally) ¹	
Number, type	max. 2 independent PNP open collector contacts
Switching performance	$V_{Switch} = V_S - 2 V$; contact rating max. 125 mA, short-circuit resistant
Max. switching current ²	70 mA
Repeatability	± 0.1 % span
Switching frequency	max. 10 Hz
Switching cycles	> 100 x 10 ⁶
Delay time	0 ... 100 sec
¹ max. 1 contact for: 4 ... 20 mA / 2-wire with plug ISO 4400; 0 ... 10 V / 3-wire with M12x1 no contact possible with 0 ... 10 V / 3-wire with plug ISO 4400	
² the real switching current in the application depends on the power supply unit	
Miscellaneous	
Electrical protection	reverse polarity protection (no damage, but also no function); electromagnetic compatibility (emission and immunity according to EN 61326); short-circuit protection; ingress protection IP 65
Display	4-digit, 7-segment red LED display, digit height 7 mm; range of indication -1999 ... +9999; accuracy 0.1 % \pm 1 digit; digital damping 0.3 ... 30 sec (programmable); measured value update 0.0 ... 10 sec (programmable)
Permissible temperatures	electronics / environment: -25 ... 85 °C storage: -40 ... 85 °C
Material of display housing	PA 6.6, polycarbonate
Mechanical stability	vibration: 5 g RMS (20 ... 2000 Hz) shock: 100 g / 11 msec
Weight	approx.. 150 g
CE-conformity	EMC Directive_ 2014/30/EU



ELECTRICAL CONNECTION

Wirings diagrams

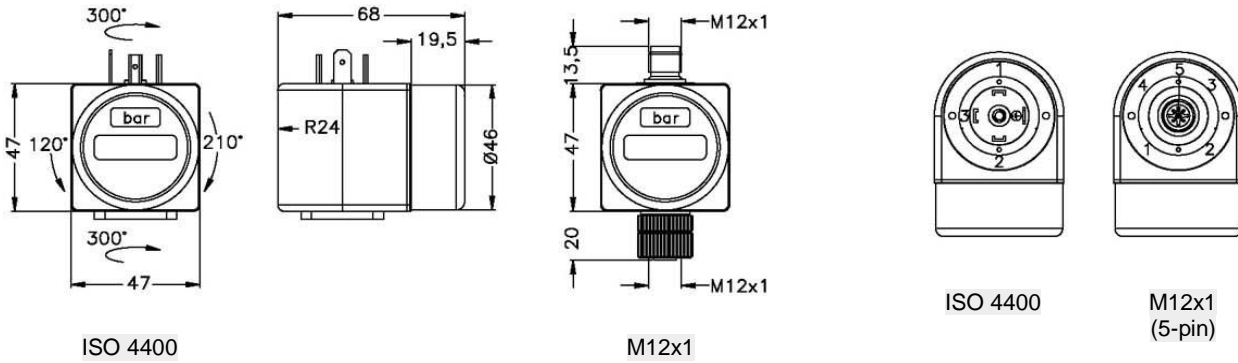
2-wire-system (current)

3-wire-system (voltage)

Pin configuration

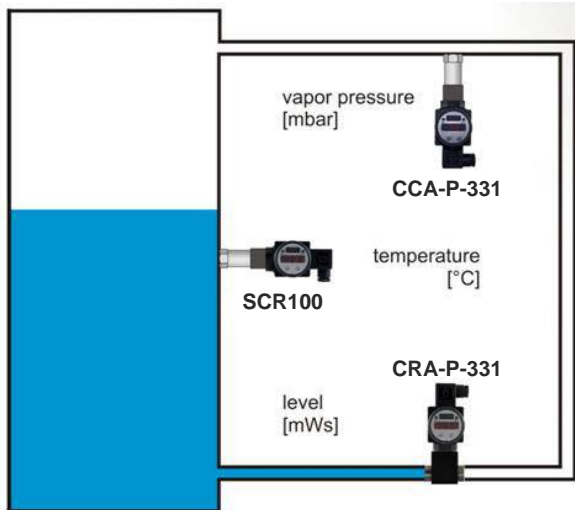
Electrical connection	ISO 4400	M12x1 metal (5-pin)
Supply +	1	1
Supply -	2	2
Signal + (for 3-wire)	3 ¹	3 ¹
Contact 1	3 ¹	5
Contact 2	-	3 ¹
Shield	ground pin	4

DIMENSIONS



TYPICAL APPLICATION

In situ display of pressure, temperature and level



ORDER CODE

SWE-430L- - - - - - N -

Version											
Standard version	8	5	0								
Analogue output											
4 ... 20 mA / 2-wire				1							
0 ... 10 V / 3-wire				3							
Customer				9							
Contacts¹											
Without switching output				0							
1 x PNP (3-wire output only with 5-pin connector N10)				1							
2 x PNP (only with 5-pin connector N10)				2							
Electrical connection											
Connector DIN 43650 (ISO 4400) (IP 65) - 4-pin					1	0	0				
Connector M12 x 1, 5-pin (IP 67) - metal					N	1	0				
Units²											
without description								0			
bar								1			
mbar								2			
mH ₂ O								3			
MPa								4			
kPa								5			
mA								A			
°C								C			
°C dp								D			
Kelvin								K			
mm/s								M			
%								P			
Volt								V			
Customer								9			
Special version											
Standard									0	0	0
Customer									9	9	9

1 - with connector DIN 43650 and output 4 ... 20 mA / 2-wire only max. 1 switching output possible;
 with connector DIN 43650 and output 0 ... 10 V / 3-wire no contact possible

2 - the unit signs are loose-settled

