

More process reliability in phase separation

Inline Conductivity Meter ILM-4



EXTENDED WARRANTY

Experience our quality promise:
 The ILM-4, now comes with an extended warranty of 5 years. The general terms and conditions apply. For further information see www.anderson-negele.com



Benefits in production and CIP / SIP

ILM-4 with IO-Link and 4...20 mA enables an active, automated, and temperature compensated phase separation. This applies to different media in production processes and the CIP / SIP return of acid / caustic / water.

These media can be drained or returned to the storage tanks in the highest possible grade through precise inline conductivity measurement. The multiple use of the cleaning media ensures maximum cost efficiency and environmental protection.

Benefits in cleaning agents' concentration control

For an optimal and reproducible cleaning result, each cleaning agent must be concentrated to the specified value by re-dosing with concentrate and freshwater. This is ensured by the highly accurate measurement of conductivity with the ILM-4.

Advantages of the ILM-4 sensor

- **Minimum response time (1.2 s)** for maximum efficiency
- Ready for IoT: **digital IO-Link interface and analog 4...20 mA** data transmission in parallel
- **Precise phase separation** of different media means **less product loss** and cost minimization
- **Optimum multiple use** of the cleaning chemicals due to correct return to the respective tanks
- **Minimization of cleaning time and water consumption:** inline conductivity analysis for active switching after reaching the desired value and not after a fixed time
- **Precise concentration control of the cleaning agents**
- **Reliable product monitoring/quality assurance**
- **Very favorable price-performance ratio**



Remote version ILM-4R

Technical data at a glance

- **Extremely compact & robust** conductivity sensor
- **Hybrid technology** with **digital + analog** interface (**IO-Link + 4...20 mA**): from simple data transfer to intelligent communication
- **Fast sensor response time: approx. 1.2 s**
- **Modular design:** configurable from the **low-priced basic version** to the **high-end model**
- Wetted sensor head made of **100 % PEEK** prevents **thermal stress cracking**
- **Measuring range selectable:** 1...999 mS/cm
- **Reproducibility** ≤ 1 % of measured value
- Fully compensated measurement **up to 130 °C**, CIP/SIP cleaning up to **150 °C / 60 min.**
- **Remote version with Smart Replace Design:** Easy plug&play replacement of components

Order code									
ILM-4	Inductive conductivity sensor								
ILM-4R	Inductive conductivity sensor - remote version								
Submersion length of toroid									
L20	20 mm								
L50	50 mm								
Process connection									
(A): 3-A conform, (E): EHEDG approval (only with CLEANadapt adapter with leakage hole))									
S01	CLEANadapt G1" (A) (E)	TC1	Tri-Clamp 1½" (A)						
V25	Varivent type F, DN 25 (A)	TC2	Tri-Clamp 2" (A)						
V40	Varivent type N, DN 40/50 (A)	T25	Tri-Clamp 2½" (A)						
		TC3	Tri-Clamp 3" (A)						
Head orientation (not selectable for ILM-4R)									
H	Horizontal head orientation								
V	Vertical head orientation								
Signal module									
I42	IO-Link and 1x 4...20 mA conductivity								
I62	IO-Link and 2x 4...20 mA conductivity/temperature selectable								
I63	IO-Link and 2x 4...20 mA conductivity/temperature selectable, external range switching								
Electrical connection									
P	Cable gland M16x1.5								
D	2x cable gland M16x1.5								
M	1x M12 connector, 4 pin output/power supply								
N	2x M12 connector, 4 pin output, 5 pin input/power supply								
A	2x M12 connector, 4 pin output/power supply, 5 pin output/input								
C	1x M12 connector, 5 pin analog output and IO-Link								
R	2x M12 connector, 4 pin analog and switching output, 3 pin IO-Link and input								
Interface/Display									
X	Without								
S	Simple User Interface with small display (not for ILM-4R)								
L	Large User Interface with big display								
Enclosure									
X	Plastic cap without sight glass								
P	Plastic cap with sight glass								
M	Stainless steel cap without sight glass								
W	Stainless steel cap with sight glass								
Configuration									
X	Default factory settings								
S	Special customer settings								
Remote transmitter interconnect cable									
(PVC, 8 pin, M12 plug)									
05P	Length 5 m, plastic coupling								
10P	Length 10 m, plastic coupling								
20P	Length 20 m, plastic coupling								
XXP	Special length, plastic coupling, 30 m max, steps of 1 m								
05S	Length 5 m, stainless steel coupling								
10S	Length 10 m, stainless steel coupling								
20S	Length 20 m, stainless steel coupling								
XXS	Special length, stainless steel coupling, 30 m max, steps of 1 m								
000	Without remote cable								
ILM-4 /	L20 /	S01 /	V /	I63 /	D /	S /	P /	X	
ILM-4R /	L20 /	S01 /		I63 /	D /	L /	P /	X /	05P