

**TECHNICAL DATA**

process connection	G1"
measuring range conductivity	predefined measuring ranges and customized adjustable measuring ranges *1

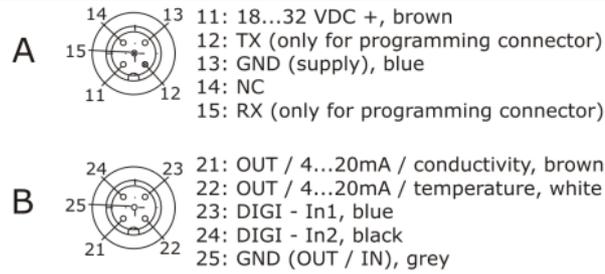
Conductivity measuring range	Measuring range mS/cm	Resolution for measuring range mS/cm
LF MB 1	0 ... 0,5	0,001
LF MB 2	0 ... 1,0	0,001
LF MB 3	0 ... 2,0	0,01
LF MB 4	0 ... 3,0	0,01
LF MB 5	0 ... 5,0	0,01
LF MB 6	0 ... 10,0	0,01
LF MB 7	0 ... 20,0	0,1
LF MB 8	0 ... 30,0	0,1
LF MB 9	0 ... 50,0	0,1
LF MB 10	0 ... 100,0	0,1
LF MB 11	0 ... 200,0	1,0
LF MB 12	0 ... 300,0	1,0
LF MB 13	0 ... 500,0	1,0
LF MB 14	0 ... 999,0	1,0
LF MB 15	By customer	Tbd.

response time conductivity	T09 <1sec (damping=1)
measuring range temperature	predefined measuring ranges and customized adjustable measuring ranges *2

Temp. measuring range	Measuring range °C
T MB 1	0 ... 150
T MB 2	-20 ... 130
T MB 3	0 ... 100
T MB 4	-20 ... 80
T MB 5	0 ... 50
T MB 6	-10 ... 40
T MB 7	-20 ... 150
T MB 8	By customer

response time temperature	T09 <9sec
temperature coefficient	adjustable for every measuring range 0...5%/K
accuracy temperature	range 20... 50°C: <math>\pm 0,2^\circ\text{C}</math>, range -20...150°C <math>\pm 1,5^\circ\text{C}</math> *3
accuracy	2% of measuring range final value
material (process-intrusive)	PEEK / 316L
material casing	1.4301/1.4305
power consumption	max. 100mA
supply voltage	U <sub>b</sub> =24V ±20% (18...32VDC)
output signal	2x4-20 mA
protection category	IP69K, IP68 according to DIN EN 60529
protection class	III

long-term-stability of conductivity	±0,5% of measuring range final value ±20 µS/cm
reproducibility of conductivity	<1% of measuring range final value
setting	via PC-Software "Sonvis"
across flats	AF36
sensor connection	2xM12 connector inductive conductivity

**AMBIENT CONDITIONS**

process temperature	-20...100°C / 150°C (1h)
ambient temperature/ head	-20...60°C
process pressure	max 10 bar

**MISCELLANEOUS**

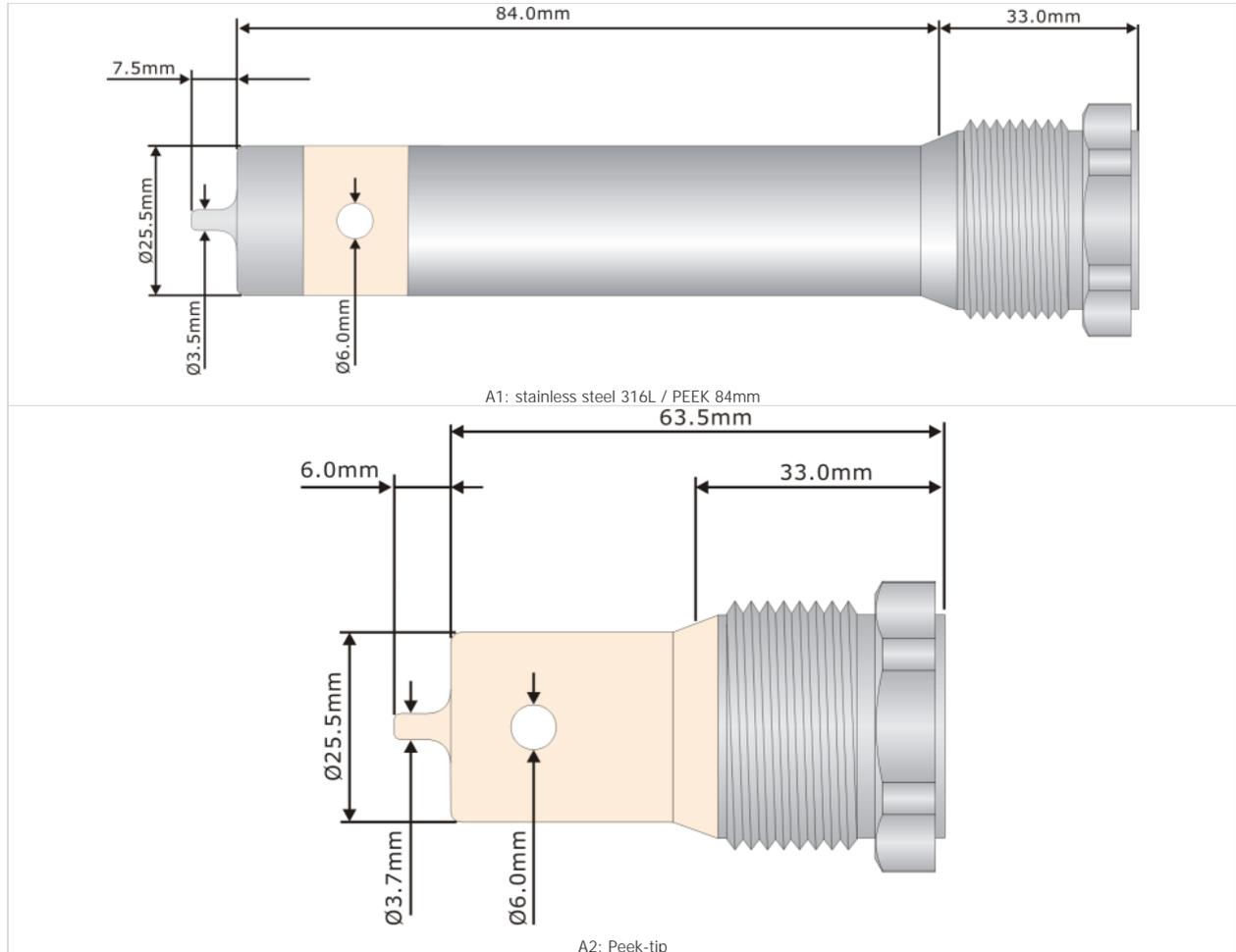
labelling	by engraving of housing, "batch-no"
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**IN VERWENDUNG MIT**

VAR-G1"  
 MIL-G1"

**TYPE KEY CONFIGURATION**

Pos.:	Physical characteristics	Key	Characteristic
1	design of measuring tip	A0	stainless steel 316L / PEEK
		A1	stainless steel 316L / PEEK 84mm
		A2	Peek-tip *4



**EXISTING CONFIGURATIONS**

Type	Order number	Item number	Old order number
ICS-8	<a href="#">ICS-8-A0</a>	800-575	
ICS-8	<a href="#">ICS-8-A1</a>	800-660	

**REMARKS**

!CAUTION! Condensation may occur if the dewpoint is undercut. This may destroy the sensor. In thermal cycling, for example cold jet of water on hot sensor, this may lead to absorption of fluid into the sensor. (list not exhaustive!) (requirements cf. DIN EN 60068-2-14) For applications with dew point, temperature shock, thermal cycling, we recommend a partial or better solid casting. The tightness to IP68 classification does not imply that these parts are suitable for applications with a dew point or temperature shock (DIN 60068-2-14)!

\*1 - the current output is invertible  
 - the minimum range is 250µS/cm or <50% of upper value  
 - the customized measuring range is only adjustable via PC-software

\*2 - the current output is invertible  
 - the minimum range is 50K  
 - the customized measuring range is only adjustable via PC-software

\*3 resolution 0,1°C, repeat accuracy 0,2% of measuring range

\*4 response time of temperature will differ from T09<9sec. values will be determined.

We reserve the right to make technical modifications and correction at any time without prior notice!

This version of the data / type sheet is a translation by a partner. We assume no liability for translation errors. If the translation contains errors or ambiguities, the German version of the data / type sheet is to be used.

**REVISION**

Version	Effective from	Comment
<u>1.1</u>	07.11.2014 12:54:13	Freigabe PSO 07112014
<u>1.0</u>	05.12.2013 12:18:14	Typenblatt angelegt