

Multi-point Conductive Level Probe LCSA6

- ◆ Up to 4 electrodes (3 plus reference)
- ◆ Fixed or changeable electrodes
- ◆ Applicable to conductive liquids
- ◆ Compatible with LC level controllers/indicators
- ◆ Electrode coating available
- ◆ Local controller available
- ◆ ATEX certified Ex version available



The LCSA6 level probe is intended for multi-point control of conductive liquids in combination with conductivity level controllers/indicators, such as the controller series LC produced by COMECO. Up to 4 replaceable rod-type electrodes (4 operating or 3 operating and 1 reference) can be attached to the probe header. LCSA6 can be mounted on the top of various vessels: metal or nonmetal, open-surface, closed, or pressurized up to 16 bar. The (insulated) stainless steel wetted parts allow usage in the food, pharmaceutical, and chemical industries, and the available Ex 'd' approved enclosure provides a high grade of protection. Thanks to its compact design, the LCSA6 probe is very useful in multi-level control applications.

Technical specifications

Model	LCSA6		
Specifications			
Electrodes	1, 2, 3, or 4 operating electrodes ⁽¹⁾ + reference electrode ⁽²⁾		
Probe length	60...3000 mm for each electrode		
Process connection	1½", 2", or flange		
Rod insulation	none or PTFE tube		
Wiring	in-head screw w/ nuts; through cable gland		
Mounting	top		
Wetted parts	stainless steel, PTFE		
Housing	IP65 ABS box 80x80x60 mm	IP65 aluminum protection head	Ex 'd' IP66 stainless steel protection head
Operating temperature	-20...90 °C	-20...200 °C	-20...200 °C
Operating pressure	up to 16 bar		
Rod separator	PTFE disc w/ 5 mm thickness ⁽³⁾		
ATEX approval	II 2G Ex d IIC T6 -20°C≤Ta≤+60°C, II 2D Ex tDA21 IP65 T80°C		

⁽¹⁾ Electrically isolated from the metal housing!

⁽²⁾ Non obligatory electrode, which is electrically connected to the metal housing!

⁽³⁾ It is obligatory, if two of the rods are longer than 500 mm; can also be ordered separately.

Model	LCSA6S		
Specifications			
Description	socket for changeable electrodes LCSAR ⁽⁴⁾		
Electrodes	for 1, 2, 3, or 4 operating electrodes ⁽¹⁾ + reference electrode ⁽²⁾		
Probe/socket insulation	PTFE		
Process connection	1½", 2", or flange		
Rod connection	M6 (female)		
Wiring	in-head screw w/ nuts; through cable gland		
Mounting	top		
Wetted parts	stainless steel, PTFE		
Housing	IP65 ABS box 80x80x60 mm	IP65 aluminum protection head	Ex 'd' IP66 stainless steel protection head
Operating temperature	-20...90 °C	-20...200 °C	-20...200 °C
Operating pressure	up to 16 bar		
ATEX approval	II 2G Ex d IIC T6 -20°C≤T _a ≤+60°C, II 2D Ex tDA21 IP65 T80°C		

⁽⁴⁾ See LCSA datasheets and order separately!

Ordering code LCSA6(S)* - G0.G6.G9.G10 - #1.#2.n#3.#4

Code	Feature or option	Code values
*	Variant	1, 2, 3, 4 - with 1, 2, 3, 4 operating electrodes only, 1R, 2R, 3R - with 1, 2, 3 operating plus 1 reference electrode
G0	Housing	D - plastic box 80x80x60 mm, E - head type "E", EGS - head type "EGS" ⁽⁸⁾
G6	Probe (rod) length [mm] ^(5,6)	L1/L2/L3/L4 (each length: 60...3000)
G9	Process connection	Q13 - G1½", Q14 - G2", Q16 - NPT 1½", Q17 - NPT 2", F - flange (specify!), Z - other (specify!)
G10	Rod (socket) material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404, M15 - 1.4362
#1	Rod insulation ⁽⁶⁾	X - none (non-insulated rods), TF - PTFE protective tube
#2	Reference rod insulation ⁽⁶⁾	X - none (non-insulated rod), TF - PTFE protective tube
#3	Rod separator ^(3,6) (n' - number of separators)	X - none, SP - PTFE rod separator mounted
#4	Incorporated devices	X - none, A - local controller ⁽⁷⁾

⁽⁵⁾ Specify the exact length (step 50 mm) for every rod including referenced (L4).

⁽⁶⁾ Do not code for LCSA6S!

⁽⁷⁾ See controller datasheets and order separately!

⁽⁸⁾ Contact COMECO!

Applicable accessories

Code	Description
SP__	Rod separator (specify number of rods 1...4)

COMECO reserves the right of changing specifications without prior notice!