

Contact level measurement
Threaded, flanged and sanitary connections
Suitable for measuring of liquids and powders
IP65 / 67 protection
PTFE or PVC insulation



Capacitive instrument, rod probe suitable for general or chemical-pharmaceutical applications for level measurement of conductive, non-conductive liquids or granules. Installation on the top of metal tanks.

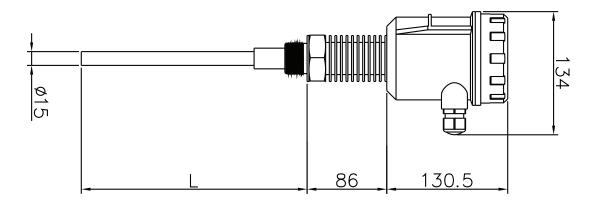
TECHNICAL FEATURES

Housing material aluminum / polycarbonate Versions compact; remote; higt temperature IP rating IP67 Electrical connection terminals Working temperature -30° to +150°C PTFE;

-20° to +70°C PVC

Electrodes
rigid insulated PTFE rod; rigid PVC insulated rod
Power supply
24vDC; 24/115/230vAC
Analog output
4-20mA
Measure range
max 3 mt rod





CLT4 Capacitive rod probe for liquids and dust

Suitable for level measurement Installation in the top of metallic tanks; 3m max.

Version	
Α	Without insert-preamplifier (only capacitive electrode with E, F or L housing)
В	Compact
D	Spacer-cooling-fins compact in carbon-steel
F	Spacer-cooling-fins compact in stainless-steel
Н	Separate with M8 female connection, 1.5m coaxcable max. 70°C (cod 525A001H). Electrode with DIN B aluminum housing - IP66 (only with ½" connection)
I	Separate with M8 female connection, 1.5m coaxcable with double shielding max. 120°C with external sheath in EPDM (cod 525A003E). Electrode with DIN B aluminum housing - IP66 (only with ½" connection)
L	Separate with M8 female connection, 1.5m coaxcable max. 70°C (cod 525A001H). Electrode with DIN A aluminum housing - IP66
М	Separate with M8 female connection, 1.5m coaxcable with double shielding max. 120°C with external sheath in EPDM (cod 525A003E). Electrode with DIN A aluminum housing - IP66
R	Separate with Al fixing base + 2m coaxcable max. 70°C (cod 525A001H). Electrode with DIN B aluminum housing - IP66 (only with ½" connection)
S	Separate with Al fixing base + 2m coaxcable max. 70°C (cod 525A001H). Electrode with DIN A aluminum housing - IP66
Z	Special

Electro	Electronic preamplifier	
00	None	
22	TC22, 4-20mA, calibration by 2 push-buttons or via RS485, 24vDC	
23	TC23, 4-20mA, calibration by 2 push-buttons or via RS485, 24vAC	
24	TC24, 4-20mA, calibration by 2 push-buttons or via RS485, 115vAC	
25	TC25, 4-20mA, calibration by 2 push-buttons or via RS485, 230vAC	
26	TC26, 4-20mA, calibration by 2 push-buttons or via RS485,1 relay, 24vDC	
27	TC27, 4-20mA, calibration by 2 push-buttons or via RS485,1 relay, 24vAC	
28	TC28, 4-20mA, calibration by 2 push-buttons or via RS485,1 relay, 115vAC	
29	TC29, 4-20mA, calibration by 2 push-buttons or via RS485,1 relay, 230vAC	
30	TC30, 4-20mA 2-wire, 2 push-buttons calibration, 10-30vDC	
99	Special	

Housing for electronic preamplifier	
E	IP 66 DIN B aluminum housing (for electrode only)
F	PC with transparent cap and anticondensation filter - IP67
G	IP66 varnished aluminum
L	PC with blind cap and anticondensation filter - IP67
Z	Special



Process	connection
01	G1" / Carbon-steel
02	G1" / Stainless-steel SS316
03	1" NPT / Carbon-steel
04	1" NPT / Stainless-steel SS316
11	G1"½ / Carbon-steel
12	G1"½ / Stainless-steel SS316
19	G1"½ / PTFE
20	Sanitary DN25 DIN 11851 / SS304L
21	Sanitary DN40 DIN 11851 / SS304L
22	Sanitary DN50 DIN 11851 / SS304L
40	Threaded flange DN40 PN 6 UNI 1092-1 / PVC
41	Threaded flange DN40 PN 6 UNI 1092-1 / PTFE
42	Threaded flange DN40 PN16 / carbon steel
45	Threaded flange DN50 PN6 UNI 1092-1 / PVC
46	Threaded flange DN80 PN6 UNI 1092-1 / PVC
47	Threaded flange DN100 PN6 UNI 1092-1 / PVC
50	Threaded flange DN40 PN16 / SS304
51	Threaded flange DN40 PN16 / SS316
52	Threaded flange DN50 PN16 DIN 2527 form B (without gasket) / SS316
53	Threaded flange DN80 PN16 DIN 2527 form B (without gasket) / SS316
54	Threaded flange DN100 PN16 DIN 2527 form B (without gasket) / SS316
60	Threaded flange ANSI RF 2" 150 psi / SS316
61	Threaded flange ANSI RF 3" 150 psi / SS316
62	Threaded flange ANSI RF 4" 150 psi / SS316
71	CLAMP 1"/SS316
73	CLAMP 1 1/2" / SS316
75	CLAMP 2" / SS316
83	G½" / Carbon-steel - not for DIN A housing
84	G½" / Stainless-steel SS316 - not for DIN A housing
99	Special
Electrod	e type and insulation
В	PTFE partially insulated SS316 rod
	1 1
D	PVC totally insulated SS316 rod
D H	PVC totally insulated SS316 rod PTFE totally insulated SS316 rod
Н	PTFE totally insulated SS316 rod
H L	PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids - max length 2200mm)
Н	PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids - max length 2200mm) PTFE partially insulated SS316 rod + carbon steel grounding reference
H L M N	PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids - max length 2200mm) PTFE partially insulated SS316 rod + carbon steel grounding reference PVC insulated rod + carbon steel grounding reference
H L M N	PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids - max length 2200mm) PTFE partially insulated SS316 rod + carbon steel grounding reference PVC insulated rod + carbon steel grounding reference PTFE insulated rod + carbon steel grounding reference
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H L M N P Q R S Z L= Electi 40 42 46 48 50	PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids - max length 2200mm) PTFE partially insulated SS316 rod + carbon steel grounding reference PVC insulated rod + carbon steel grounding reference PTFE insulated rod + carbon steel grounding reference PTFE partially insulated SS316 rod + SS316 grounding reference PVC insulated rod + SS316 grounding reference PVC insulated rod + SS316 grounding reference PTFE insulated rod + SS316 grounding reference Special rode length, price each 100mm PTFE partially insulated SS316 rod PVC totally insulated SS316 rod PTFE totally insulated SS316 rod PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids) PTFE partially insulated SS316 rod + Carbon steel grounding reference
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H L M N N P Q R S Z L= Electr 40 42 46 48 50 51 52 53	PTFE totally insulated SS316 rod PTFE 8/12 totally insulated SS316 rod (for liquids - max length 2200mm) PTFE partially insulated SS316 rod + carbon steel grounding reference PVC insulated rod + carbon steel grounding reference PTFE insulated rod + carbon steel grounding reference PTFE partially insulated SS316 rod + SS316 grounding reference PVC insulated rod + SS316 grounding reference PVC insulated rod + SS316 grounding reference PTFE insulated rod + SS316 grounding reference Special rode length, price each 100mm PTFE partially insulated SS316 rod PVC totally insulated SS316 rod PVC totally insulated SS316 rod PTFE totally insulated SS316 rod (for liquids) PTFE 8/12 totally insulated SS316 rod + Carbon steel grounding reference PVC insulated rod + Carbon steel grounding reference PVC insulated rod + Carbon steel grounding reference PTFE insulated rod + Carbon steel grounding reference PTFE insulated rod + Carbon steel grounding reference
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Contact level measurement for top installation
PE coated rope
For measurements of powders and granules
Maximum probe length 30 cm



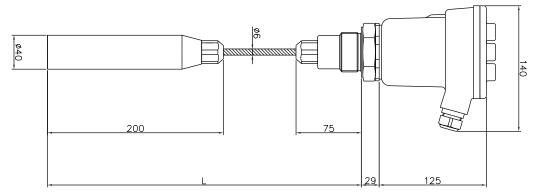
Capacitive instrument, rope probe for continuous level measuring. Suitable for general use or level measurement of granules and powders. Installation on the top of silos.

TECHNICAL FEATURES

Housing material
polycarbonate
Versions
compact; remote
IP rating
IP67
Electrical connection
terminals

Electrodes insulated PE rope Power supply 24vDC; 24/115/230vAC Analog output 4-20mA





CLT7 Ca pac itive rope probe for granulates and powders

Continuous capacitive level measurement Installation on the top of metallic tanks

Version	
Α	Without insert-pre amplifier (only cap acitive electrode with B, F or L housing)
В	Compact version
L	Separate with M8 female connection, 1.5m coax cable max. 70°C (cod 525A001H). Electrode with DIN A aluminum housing - IP66
Р	Separate with Al fixing base + 1.7 m coax cable max. 70 °C (cod 525A001H). Electrode with DIN A aluminum housing - IP66
Z	Special

Electron	Electronic preamplifier	
00	None	
22	TC22, 4 -20mA, calibration by 2 push-buttons or via RS485, 24 vDC	
23	TC23, 4 -20mA, calibration by 2 push-buttons or via RS485, 24 vAC	
24	TC24, 4 -20mA, calibration by 2 push-buttons or via RS485, 115 vAC	
25	TC25, 4 -20mA, calibration by 2 push-buttons or via RS485, 230 vAC	
26	TC26, 4 -20mA, calibration by 2 push-buttons or via RS485, 1relay, 24 vDC	
27	TC27, 4 -20mA, calibration by 2 push-buttons or via RS485, 1relay, 24 vAC	
28	TC28, 4 -20mA, calibration by 2 push-buttons or via RS485, 1relay, 115 vAC	
29	TC29, 4 -20mA, calibration by 2 push-buttons or via RS485, 1relay, 230 vAC	
30	TC30, 4-20mA, 2wires, 2 push buttons for calibration, 10-30 vDC	
99	Special	

Housing for electronic preamplifier	
F	PC with transparent cap and anticondensat ion filter, IP67
L	PC with blind cap and antico ndensation filter, IP 67
Z	Special

Process	Process connection	
11	G1"½ / Carbon-steel	
12	G1"½ / \$ \$ 316	
42	Thread ed flange DN40 PN16 Carbo n-stee l	
50	Thread ed flange DN 40 PN16 SS3 04	
51	Thread ed flange DN 40 PN16 SS 316	
52	Thread ed flange DN 50 PN16 DIN 2527 form B (without gaske t) SS 316	
53	Thread ed flange DN 80 PN16 DIN 2527 form B (without ga sket) SS3 16	
54	Thread ed flange DN 100 PN16 DIN 252 7 form B (without gasket) SS31 6	
60	Thread ed flange ANSI RF 2" 150 ps i SS 316	
61	Thread ed flange ANSI RF 3" 150 ps i SS 316	
62	Thread ed flange ANSI RF 4" 150 psi SS 316	
99	Special	

	Electrode type and insulation	
ſ	L	Ø8mm car bon steel, counterweight in carb on steel
	M	Ø8mm car bon steel, counterweight in \$ \$ 316
	N	Ø8mm carb on steel PE coated, counterw eight in carbon ste el
	Р	Ø8mm carb on steel PE c oated, counterw eight in SS3 16
	Z	Special

L= Electrode length, price each meter	
73	Ø8mm carbon steel
74	Ø8mm carbon steel PE coated
99	Special

L1 = no	L1 = non sensitive part (rod), material and price each 10cm	
Α	Standard (50mm)	
В	Carbon-steel	
С	SS31 6	
Z	Special	

CLT8 capacitive level transmitter

Contact level measurement for top installation
Threaded, flanged and sanitary connections
Suitable for liquid level measurement
IP66 / 67 protection
PTFE or PVC insulation



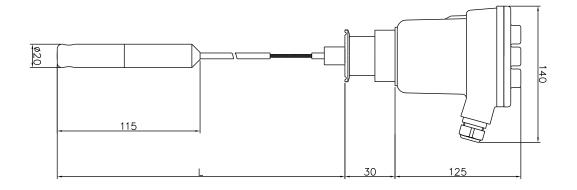
Capacitive instruments, rope probe for measuring of liquid levels, installation on top of metal tanks.

TECHNICAL FEATURES

Housing material
polycarbonate
Versions
compact; remote
IP rating
IP67
Electrical connection
terminals

Electrodes insulated PTFE rope Power supply 24vDC; 24/115/230vAC Analog output 4-20mA





CLT8 Capacitive rope probe for liquids

Continuous capacitive level measurement Suitable for conductive and not conductive liquids, paste Installation on the top of metallic tanks

Version	1
Α	Without insert-preamplifier (only capacitive electrode with B, F or L housing)
В	Compact
D	Spacer-cooling-fins compact in carbon-steel
F	Spacer-cooling-fins compact in stainless-steel
L	Separate with M8 female connection, 1,5m coaxcable max. 70°C (cod 525A001H). Electrode with DIN A aluminum housing - IP66
Р	Separate with AI fixing base + 1,5 m coaxcable max. 70°C (cod 525A001H). Electrode with DIN A aluminum housing - IP66
Z	Special

Electro	Electronic preamplifier	
00	None	
22	TC22, 4-20mA, calibration by 2 push-buttons or via RS485, 24vDC	
23	TC23, 4-20mA, calibration by 2 push-buttons or via RS485, 24vAC	
24	TC24, 4-20mA, calibration by 2 push-buttons or via RS485, 115vAC	
25	TC25, 4-20mA, calibration by 2 push-buttons or via RS485, 230vAC	
26	TC26, 4-20mA, calibration by 2 push-buttons or via RS485, 1relay, 24vDC	
27	TC27, 4-20mA, calibration by 2 push-buttons or via RS485, 1relay, 24vAC	
28	TC28, 4-20mA, calibration by 2 push-buttons or via RS485, 1relay, 115vAC	
29	TC29, 4-20mA, calibration by 2 push-buttons or via RS485, 1relay, 230vAC	
30	TC30, 4-20mA, 2wires, 2 push buttons for calibration, 10-30vDC	
99	Special	

Housing for electronic preamplifier		
В	IP66 loaded PC , white polycarbonate cap	
F	PC with transparent cap and anticondensation filter, IP67	
L	PC with blind cap and anticondensation filter, IP67	
Z	Special	

	1.	
Process connection		
01	G1" / Carbon steel	
02	G1" / Stainless-steel SS316	
04	1" NPT / Stainless-steel SS 316	
11	G1"½ / Carbon-steel	
12	G1"½ / Stainless-steel SS316	
19	G1"½ / PTFE	
20	Sanitary DN 25 DIN 11851, SS 304L	
21	Sanitary DN 40 DIN 11851, SS 304L	
22	Sanitary DN 50 DIN 11851, SS 304L	
42	Threaded flange DN 40 PN16 material Carbon-steel	
50	Threaded flange DN 40 PN16 material SS 304	
51	Threaded flange DN 40 - PN16 material SS 316	
52	Threaded flange DN 50 - PN16 DIN 2527 form B (without gasket) SS 316	
53	Threaded flange DN 80 PN16 DIN 2527 form B (without gasket) SS 316	
54	Threaded flange DN 100 PN16 DIN 2527 form B (without gasket) SS 316	
60	Threaded flange ANSI RF 2" 150 psi SS 316	
61	Threaded flange ANSI RF 3" 150 psi SS 316	
62	Threaded flange ANSI RF 4" 150 psi SS 316	
71	CLAMP 1" SS 316	
73	CLAMP 1 1/2" SS 316	
75	CLAMP 2" SS 316	
99	Special	

Electrode type and insulation	
В	2,5mm PVC insulated, counterweight in SS316
С	2,5mm PTFE insulated, counterweight in SS316
L	2,5mm PVC insulated, counterweight in PVC
M	2,5mm PTFE insulated, counterweight in PTFE
Z	Special

L= Electrode length, price each meter	
81	2,5mm PVC insulated
82	2,5mm PTFE insulated
99	Special

L1 = non sensitive part (rod), material and price each 10cm	
Α	None
С	SS316
Z	Special

