

AquaLine combination electrodes

	AL 70 pH	AL 79 Pt	AL 80 pH	AL 81 pHT	AL 82 pHT	AL 83 pHT	AL 89 Pt
pH sensor ¹⁾	•		•	•	•	•	
redox sensor ²⁾		•					•
conductivity sensor ³⁾							
temperature sensor integrated				Pt 1000	Pt 100	NTC 30K Ω	
temperature range [°C]	-5 ... +80	-5 ... +80	0 ... 80	0 ... 80	0 ... 80	0 ... 80	0 ... 80
pH range	2 ... 13	2 ... 13	2 ... 13	2 ... 13	2 ... 13	2 ... 13	2 ... 13
pressure range [bar]	3	3	10	10	10	10	10
diaphragm	ceramic	•	•				
	KPG [®] annular gap		•	•	•	•	•
	fibre						
shaft material	glass	•	•	•	•	•	•
	plastic						
electrolyte	gel, low-maintenance	•	•				
	Referid [®] , low-maintenance			•	•	•	•
connection	coaxial	coaxial	coaxial	SMEK	SMEK	SMEK	coaxial
design corresponding illustration	A	B	C	D	D	D	E

¹⁾ pH sensors with A Glass
²⁾ Redox sensors with platinum disk d = 4 mm
³⁾ Conductivity sensor with platinum coating on glass, cell constant c=1.0 [cm⁻¹] (\pm 10%)

	AL 90 pH	AL 93 pHT	AL 63 LFT
pH sensor ¹⁾	•	•	
redox sensor ²⁾			
conductivity sensor ³⁾			•
temperature sensor integrated		NTC 30K Ω	NTC 30K Ω
temperature range [°C]	0 ... 80	0 ... 80	-5 ... +80
pH range	2 ... 13	2 ... 13	-
pressure range [bar]	-	-	-
diaphragm	ceramic	•	•
	KPG [®] annular gap		
	fibre		
shaft material	glass	•	•
	plastic		
electrolyte	gel, low-maintenance	•	•
	Referid [®] , low-maintenance		
connection	coaxial	SMEK	SMEK
design corresponding illustration	F	G	H

AquaLine combination electrodes
 Especially for measuring in drinking water, industrial water and sewage range. Low-maintenance electrodes.

Electrolyte:
 ▶ gel with visible KCl reserves, not refillable
 ▶ Referid[®] (polymer with visible KCl reserves), not refillable

Length L:
 ▶ 120 mm

Shaft diameter:
 ▶ 12 mm

Zero point:
 ▶ pH = 7.0

Connection:

▶ screw plug head with thread Pg 13.5

Supply:

▶ washer 9980/52
 ▶ O-ring type 9932/07

Connecting cable:

▶ coaxial: e.g. type 9902/05 (length 5 m with free end)
 ▶ SMEK (design D+G): e.g. type SMEK 19/05 (length 5 m with free end)
 ▶ SMEK (design H): e.g. type SMEK 20/05 (length 5 m with free end)

For additional connecting cables, see under Accessories on page 50 + 52.

