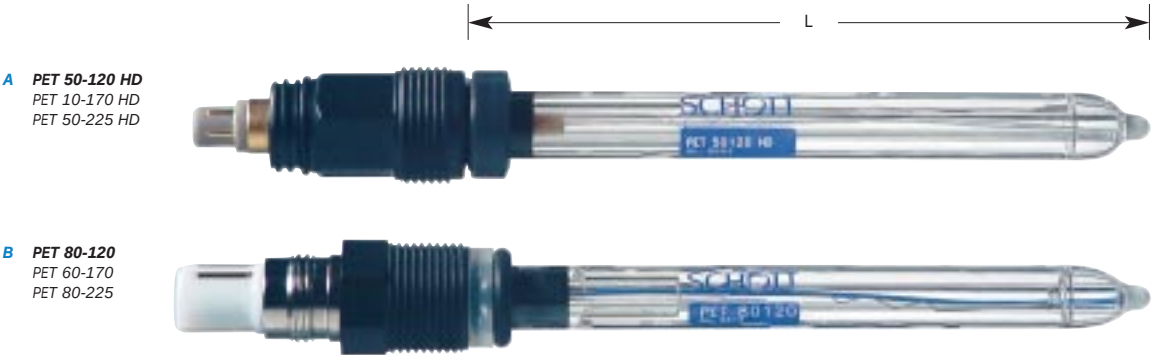


MultiSens electrodes pH, °C

		PET 10-170 HD		PET 50-120 HD		PET 50-225 HD		PET 60-170		PET 80-120		PET 80-225		PET 30-120	
temperature sensor		Pt 1000		Pt 1000		Pt 1000		Pt 1000		Pt 1000		Pt 1000		Pt 1000	
membrane glass		A		A		A		A		A		A		S	
membrane resistance (25°C) [MΩ]		500		500		500		500		500		500		900	
temperature range [°C]		0 ... 135		0 ... 100		0 ... 100		0 ... 135		0 ... 100		0 ... 100		0 ... 135	
pH range		0 ... 14		2 ... 13		2 ... 13		0 ... 14		2 ... 13		2 ... 13		2 ... 14	
pressure range [bar]		10		10		10		6		6		6		6	
length L [mm]		170		120		225		170		120		225		120	
sterilizable														●	
diaphragm	ceramic							●						●	
	platinum	●													
	hole			●		●				●		●			
electrolyte	liquid, refillable (L 300)													●	
	liquid, refillable (L 310)	●				●		●							
	Referid®, low-maintenance			●		●				●		●			
certified pressure and temperature consistency ¹⁾		●		●		●									
connection		SMEK		SMEK		SMEK		VP		VP		VP		SMEK	
design corresponding illustration		A		A		A		B		B		B		C	
type no. of variant with VP plug head														PET 20-120	

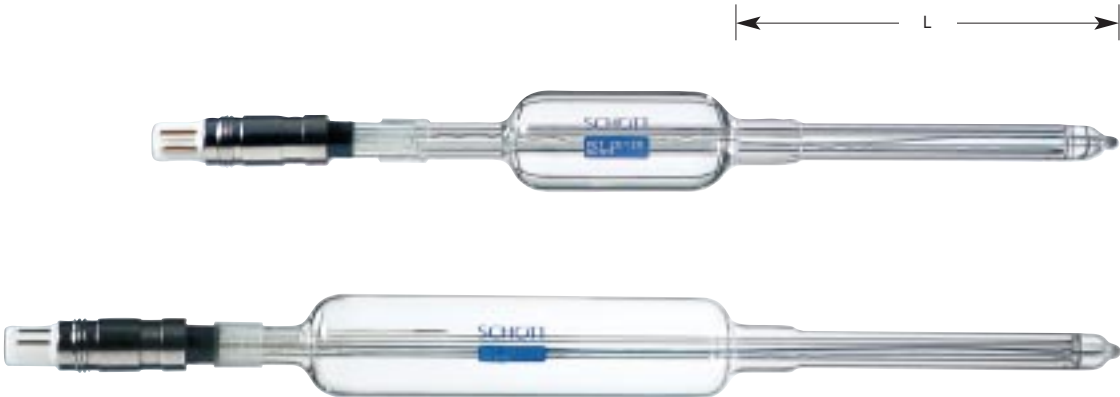
¹⁾ These types are supplied in series with Works Certificate 2.1 according to DIN EN 10204 regarding resistance to pressure and temperature.



		PET 30-200		PET 30-250		PET 36-120		PET 36-200	
Pt 1000		Pt 1000		Pt 1000		Pt 1000		Pt 1000	
S		S		S		S		S	
900		900		900		900		900	
0 ... 135		0 ... 135		0 ... 135		0 ... 135		0 ... 135	
2 ... 14		2 ... 14		2 ... 14		2 ... 14		2 ... 14	
6		6		6		6		6	
200		250		120		200			
●		●		●		●			
●		●		●		●			
●		●		●		●			
SMEK		SMEK		SMEK		SMEK			
C		C		D		D			
PET 20-200		PET 20-250		PET 26-120		PET 26-200			

C PET 20-120
PET 20-200
PET 20-250
PET 30-120
PET 30-200
PET 30-250

D PET 26-120
PET 26-200
PET 36-120
PET 36-200



MultiSens electrodes

More information from a single measuring point.

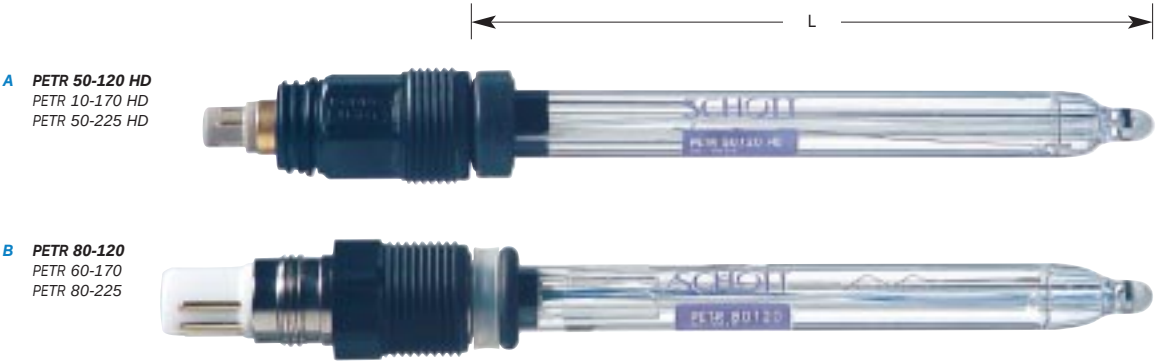
Type series PET: pH combination electrode with integrated temperature sensor.

- Zero point:**
- ▶ pH = 7.0
- Connection (design A+B):**
- ▶ screw plug head with thread Pg 13.5
- Connection (design C+D):**
- ▶ smooth plug head for sterilizable electrode holders
- Supply (design A):**
- ▶ HD sealing type 9980/51
- Supply (design B):**
- ▶ washer 9980/52
- Connecting cable:**
- ▶ SMEK: e.g. type SMEK 19/05 (length 5 m with free end)
 - ▶ VP: e.g. type VP6-19/05 (length 5 m with free end)
- For additional connecting cables, see under Accessories on page 52.

MultiSens electrodes pH, mV, °C

		PETR 10-170 HD	PETR 50-120 HD	PETR 50-225 HD	PETR 60-170	PETR 80-120	PETR 80-225	PETR 30-120
redox sensor platinum ring		●	●	●	●	●	●	●
temperature sensor		Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000
membrane glass		A	A	A	A	A	A	S
membrane resistance (25°C) [MΩ]		500	500	500	500	500	500	900
temperature range [°C]		0 ... 135	0 ... 100	0 ... 100	0 ... 135	0 ... 100	0 ... 100	0 ... 135
pH range		0 ... 14	2 ... 13	2 ... 13	0 ... 14	2 ... 13	2 ... 13	2 ... 14
pressure range [bar]		10	10	10	6	6	6	6
length L [mm]		170	120	225	170	120	225	120
sterilizable								●
diaphragm	ceramic				●			●
	platinum	●						
	hole		●	●		●	●	
electrolyte	liquid, refillable (L 300)							●
	liquid, refillable (L 310)	●			●			
	Referid®, low-maintenance		●	●		●	●	
certified pressure and temperature consistency ¹⁾		●	●	●				
connection		SMEK	SMEK	SMEK	VP	VP	VP	SMEK
design corresponding illustration		A	A	A	B	B	B	C
type no. of variant with VP plug head								PETR 20-120

¹⁾ These types are supplied in series with Works Certificate 2.1 according to DIN EN 10204 regarding resistance to pressure and temperature.



	PETR 30-200	PETR 36-120	PETR 36-200
●	●	●	●
Pt 1000	Pt 1000	Pt 1000	Pt 1000
S	S	S	S
900	900	900	900
0 ... 135	0 ... 135	0 ... 135	0 ... 135
2 ... 14	2 ... 14	2 ... 14	2 ... 14
6	6	6	6
200	120	200	
●	●	●	
●	●	●	
●	●	●	
SMEK	SMEK	SMEK	
C	D	D	
PETR 20-200	PETR 26-120	PETR 26-200	

MultiSens electrodes

More information from a single measuring point.

Type series PETR: pH combination electrode with integrated redox and temperature sensor.

Zero point:

► pH = 7.0

Connection (design A+B):

► screw plug head with thread Pg 13.5

Connection (design C+D):

► smooth plug head for sterilizable electrode holders.

Supply (design A):

► HD sealing type 9980/51

Supply (design B):

► washer 9980/52

► O-ring type 9932/07

Connecting cable:

► SMEK: e.g. type SMEK 19/05

(length 5 m with free end)

► VP: e.g. type VP6-19/05

(length 5 m with free end)

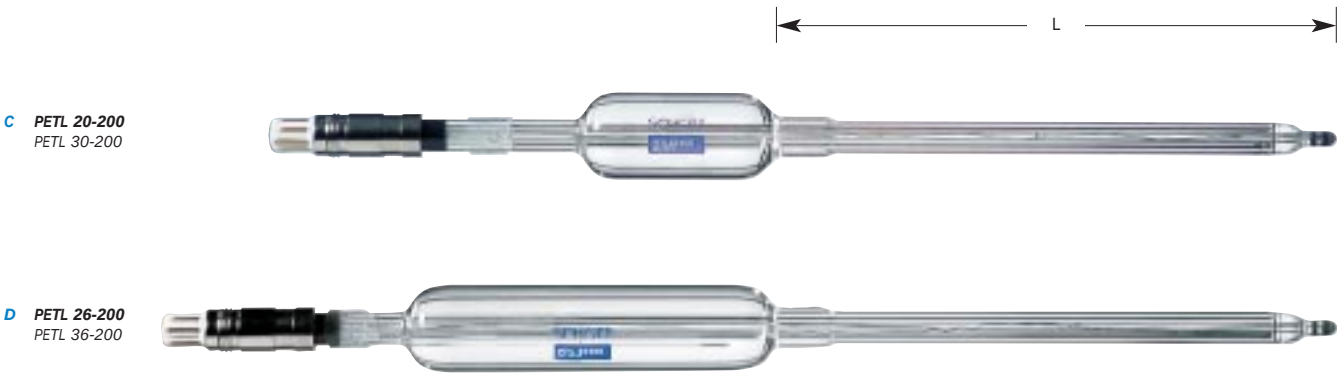
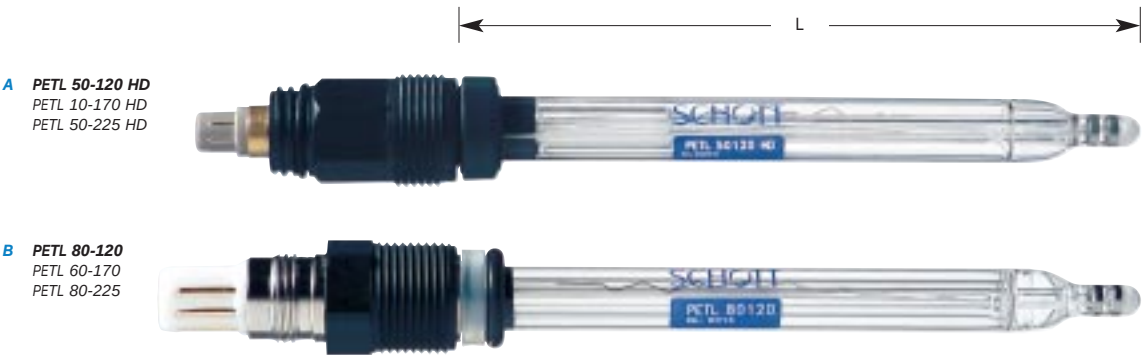
For additional connecting cables, see under Accessories on page 52.



MultiSens electrodes pH, mV, µS, °C

	PETL 10-170 HD	PETL 50-120 HD	PETL 50-225 HD	PETL 60-170	PETL 80-120	PETL 80-225	PETL 30-200	PETL 36-200
redox sensor: 2 platinum rings	•	•	•	•	•	•	•	•
temperature sensor	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000
membrane glass	A	A	A	A	A	A	S	S
membrane resistance (25°C) [MΩ]	500	500	500	500	500	500	900	900
temperature range [°C]	0 ... 135	0 ... 100	0 ... 100	0 ... 135	0 ... 100	0 ... 100	0 ... 135	0 ... 135
pH range	0 ... 14	2 ... 13	2 ... 13	0 ... 14	2 ... 13	2 ... 13	2 ... 14	2 ... 14
pressure range [bar]	10	10	10	6	6	6	6	6
recommended conductivity range (25°C) up to [mS/cm] ²⁾	10	10	10	10	10	10	10	10
cell constant about [cm ⁻¹]	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
length L [mm]	170	120	225	170	120	225	200	200
sterilizable							•	•
diaphragm	ceramic			•			•	
	platinum	•						
	hole		•		•	•		
electrolyte	liquid, refillable (L 300)						•	
	liquid, refillable (L 310)	•		•				
	Referid®, low-maintenance		•		•	•		
certified pressure and temperature consistency ¹⁾	•	•	•					
connection	SMEK	SMEK	SMEK	VP	VP	VP	SMEK	SMEK
design corresponding illustration	A	A	A	B	B	B	C	D
type no. of variant with VP plug head							PETL 20-200	PETL 26-200

¹⁾ These types are supplied in series with Works Certificate 2.1 according to DIN EN 10204 regarding resistance to pressure and temperature.
²⁾ Out of the recommended conductivity range the error of measurement can be >10%, also depending on conductivity meter.



MultiSens electrodes

Five parameters from one MultiSens electrode:
pH, redox, conductivity, temperature and reference
system.

Zero point:

► pH=7.0

Connection (design A+B):

► screw plug head with thread Pg 13.5

Connection (design C+D):

► smooth plug head for sterilizable electrode
holders

Supply (design A):

► HD sealing type 9980/51

Supply (design B):

► washer 9980/52

► O-ring type 9932/07

Connecting cable:

► SMEK: e.g. type SMEK 18/05

(length 5 m with free end)

► VP: e.g. type VP6-18/05

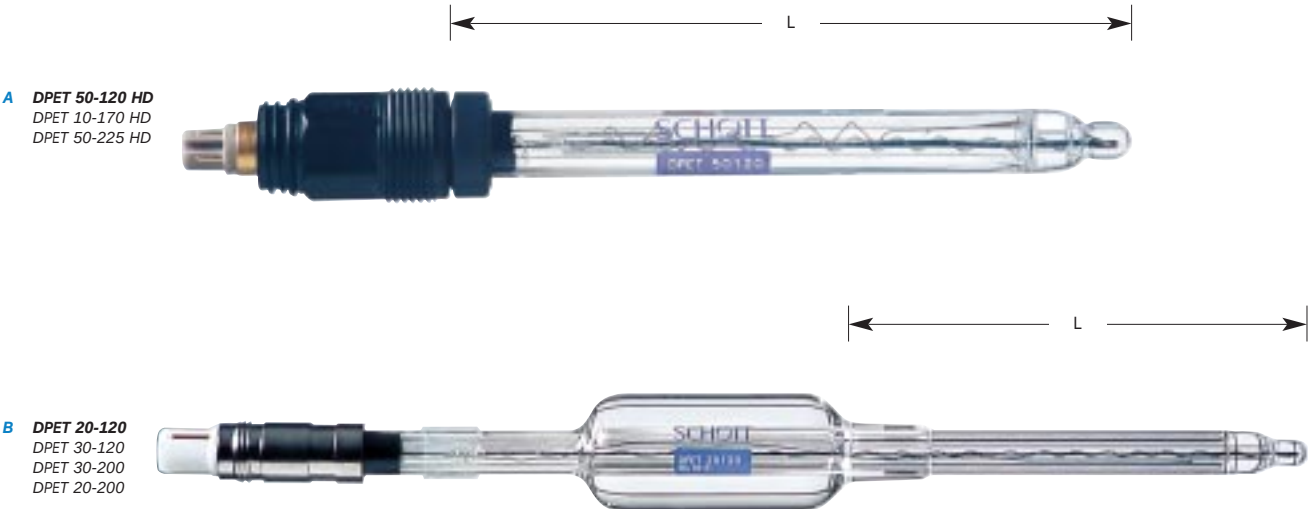
(length 5 m with free end)

For additional connecting cables, see under Acces-
sories on page 52.

MultiSens electrodes double pH, °C

		DPET 10-170 HD	DPET 50-120 HD	DPET 50-225 HD	DPET 30-120	DPET 30-200	DPET 36-200
temperature sensor		NTC 30KΩ	NTC 30KΩ	NTC 30KΩ	NTC 30KΩ	NTC 30KΩ	NTC 30KΩ
membrane glass		A	A	A	S	S	S
membrane resistance (25°C) [MΩ]		500	500	500	900	900	900
temperature range [°C]		0 ... 135	0 ... 100	0 ... 100	0 ... 135	0 ... 135	0 ... 135
pH range		0 ... 14	2 ... 13	2 ... 13	2 ... 14	2 ... 14	2 ... 14
pressure range [bar]		10	10	10	6	6	6
length L [mm]		170	120	225	120	200	200
sterilizable					•	•	•
diaphragm	ceramic				•	•	•
	platinum	•					
	hole		•	•			
electrolyte	liquid, refillable (L 300)				•	•	•
	liquid, refillable (L 310)	•					
	Referid®, low-maintenance		•	•			
certified pressure and temperature consistency ¹⁾		•	•	•			
connection		SMEK	SMEK	SMEK	SMEK	SMEK	SMEK
design corresponding illustration		A	A	A	B	B	C
type no. of variant with VP plug head					DPET 20-120	DPET 20-200	DPET 26-200

¹⁾These types are supplied in series with Works Certificate 2.1 according to DIN EN 10204 regarding resistance to pressure and temperature.



MultiSens electrodes

Double pH measuring technology for measurement point monitoring. Integrated temperature sensor.

Zero points:

- ▶ pH = 7.0 and pH = 4.6

Connection (design A):

- ▶ screw plug head with thread Pg 13.5

Connection (design B+C):

- ▶ smooth plug head for sterilizable electrode holders

Supply (design A):

- ▶ HD sealing type 9980/51

Connecting cable:

- ▶ SMEK: e.g. type SMEK 18/05

(length 5 m with free end)

- ▶ VP: e.g. type VP6-18/05

(length 5 m with free end)

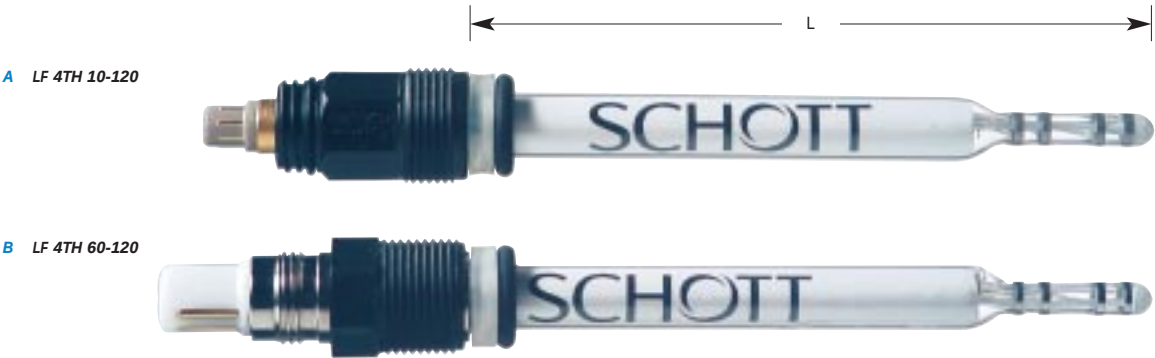
For additional connecting cables, see under Accessories on page 52.



MultiSens electrodes μS, °C

	LF 4TH 10-120	LF 4TH 60-120
conductivity sensor: 4 platinum rings	●	●
temperature sensor	Pt 1000	Pt 1000
temperature range [°C]	-5 ... +80	-5 ... +80
pressure range [bar]	10	6
recommended conductivity range (25°C)	1000	1000
up to [mS/cm] ¹⁾		
cell constant about [cm ⁻¹]	1.0	1.0
length L [mm]	120	120
connection	SMEK	VP
design corresponding illustration	A	B

¹⁾ Out of the recommended conductivity range the error of measurement can be >10%, also depending on type of conductivity meter.



MultiSens electrodes
4-pole conductivity cells with integrated tempera-
ture sensor.

- Connection:**
- screw plug head with thread Pg 13.5
- Supply:**
- washer 9980/52
 - O-ring type 9932/07

- Connecting cable:**
- SMEK: e.g. type SMEK 18/05
(length 5 m with free end)
 - VP: e.g. type VP6-18/05
(length 5 m with free end)

For additional connecting cables, see under Acces-
sories on page 52.