

EC-Lab products



Bio-Logic

16

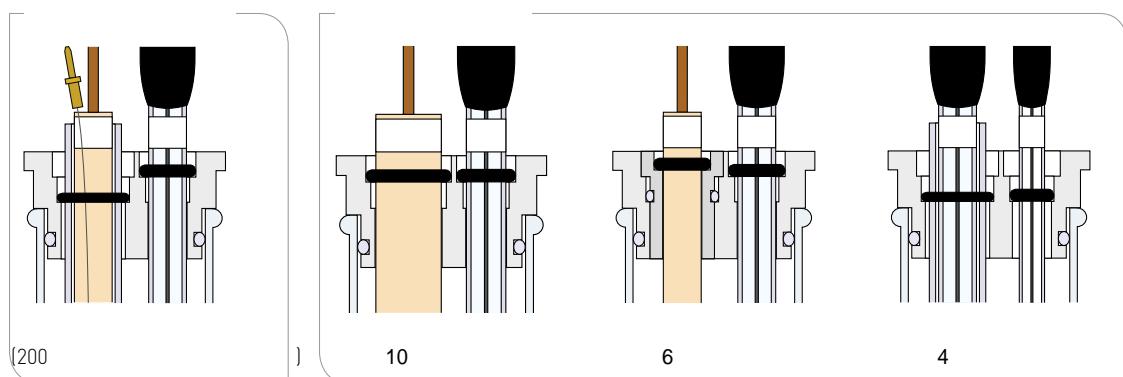
EIS



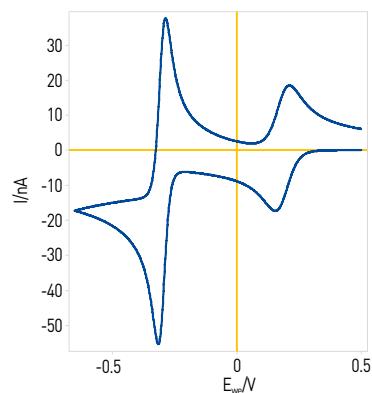


SVC-2

SVC-3



SK-2 (A-012 763)

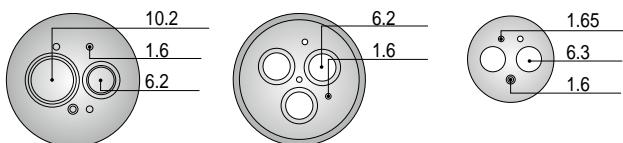


- SVC-3 (A-012669),
- PK-3 (A-011975) (. 18),
- , 6.0 ,
3.0 (A-002012) (. 18),
- , 6.0 ,
1.6 (A-002013) (. 18).



VC-4

		Catalog n°				Catalog n°				Catalog n°	
SVC-2	A-012668	SVC-3	A-012669	VC-4	A-011224						A-001197
20 [7]	A-001056	20 [7]	A-001056	5 (7)	A-011504	100 [1]					A-012632
(CE)	A-002222	57	A-002222	50	A-002222	57	A-002222	230		A-002234	
	A-012670				A-012671		A-011226			A-0 12551	
100 (ETFE),	-										-
10 6	-						A-011227	-	-	A-010530	
								CE	A-001198		
								CE	A-001196		
									A-001236		
									A-009131		
									A-000178		
9.0 [2]	A-012177	6.0 [2]	A-012176								
20	A-001209	20	A-001209								
(ETFE)	A-010537	1	A-010537	1	A-010537	18		18		A-010537	
						20		20			20





50-250

		EL-ELECTRO-1 ⁽⁸⁰⁾	EL-ELECTRO-2 ⁽⁸⁰⁾	EL-ELECTRO-3 ⁽¹⁵⁰⁾	Catalog n°
80		■			EL-A-001
80			■		EL-A-002
150				■	EL-A-020
5		■	■	■	EL-A-003
PTFE	, - , 102	■	■	■	EL-A-004
		■	■	■	EL-A-005
		■	■	■	EL-A-006
		■	■	■	EL-A-008
		■	■	■	EL-A-009
		■	■	■	EL-A-016
		■	■	■	A-002056
25	12	■	■	■	EL-A-011
		■	■	■	EL-A-012
					EL-A-022
			8		EL-A-017
PT100					EL-C-014
PT100			220		EL-C-015A
			110		EL-C-015B
10	4		(CoralPor™)	PTFE (200)	EL-C-018
250					092-VYC4
				EL-A-018	
				EL-A-021	



EL-A-012



EL-A-002



EL-A-003



EL-A-004



EL-A-005



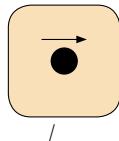
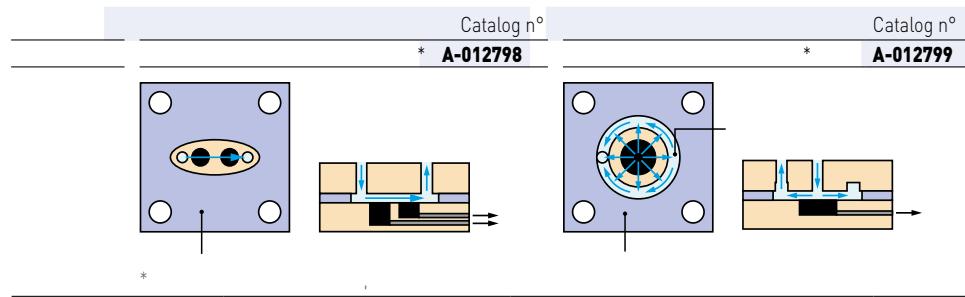
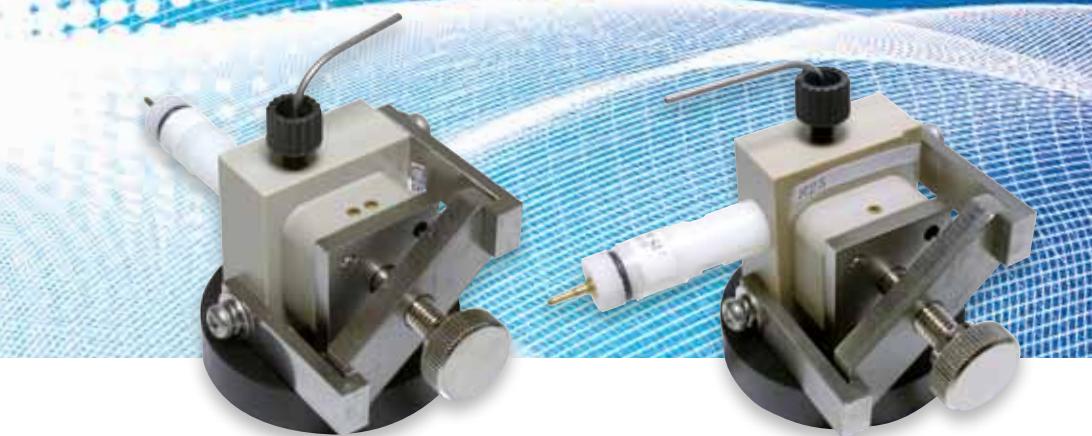
EL-A-008



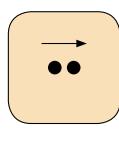
EL-A-009



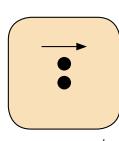
EL-A-022



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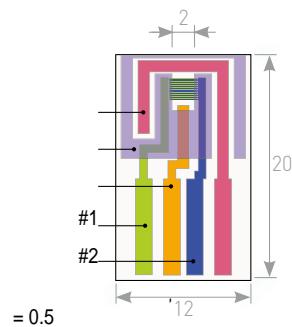
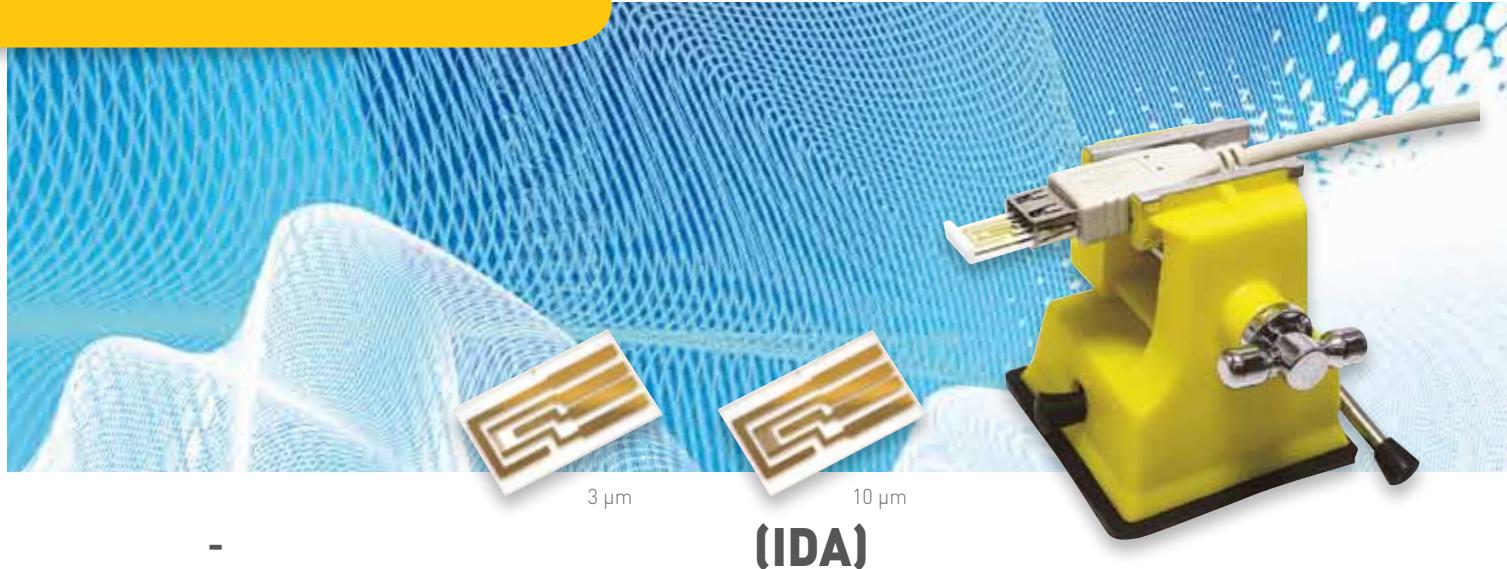


/



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Ø 3	x 2 (),	25 x 25	A-001000
Ø 3	x 2 (),	25 x 25	A-001002
Ø 3	x 2 (),	25 x 25	A-001012
Ø 3	x 2 (),	25 x 25	A-001008
Ø 3	x 2 (	),	25 x 25	A-001004
Ø 3	x 2 (	),	25 x 25	A-001009
/	Ø 3	x 2 (	),	25 x 25
/	Ø 3	x 2 (	),	25 x 25
TG-2M PTFE (4 .)			12	A-001046
TG-5M PTFE (4 .)			25	A-001047
TG-6M PTFE (4 .)			50	A-001048
TG-8M PTFE (4 .)			100	A-001049
TG-11M (4 .)			500	A-001092
TG-12M (4 .)			1,000	A-001093
		PEEK		A-001032
	Ø 6	(	),	25 x 25
	Ø 3	(	),	25 x 25
	Ø 3	(	),	25 x 25
	Ø 3	(	),	25 x 25
PFCE	Ø 3	(	),	25 x 25
	Ø 3	(	),	25 x 25
TG-2MR PTFE (4 .)			12	A-001146
TG-5MR PTFE (4 .)			25	A-001147
TG-6MR PTFE (4 .)			50	A-001148
TG-8MR PTFE (4 .)			100	A-012802
TG-11MR PTFE (4 .)			500	A-001192
TG-12MR PTFE (4 .)			1000	A-001193
		PEEK		A-001031
RE-3V Ag/AgCl		Ø 10 x 48		A-012169
RE-7V		[Ag/Ag]		A-012173
RE-3VP Ag/AgCl		, PEEK		A-012170
RE-7VP		e (Ag/Ag)	, PEEK	A-012174
0.04"		(2)		A-012912
0.04" MM	(10)			A-013273
1/16" PEEK		0.25 ,	3.0	A-001531
	PEEK	(10)		A-004130

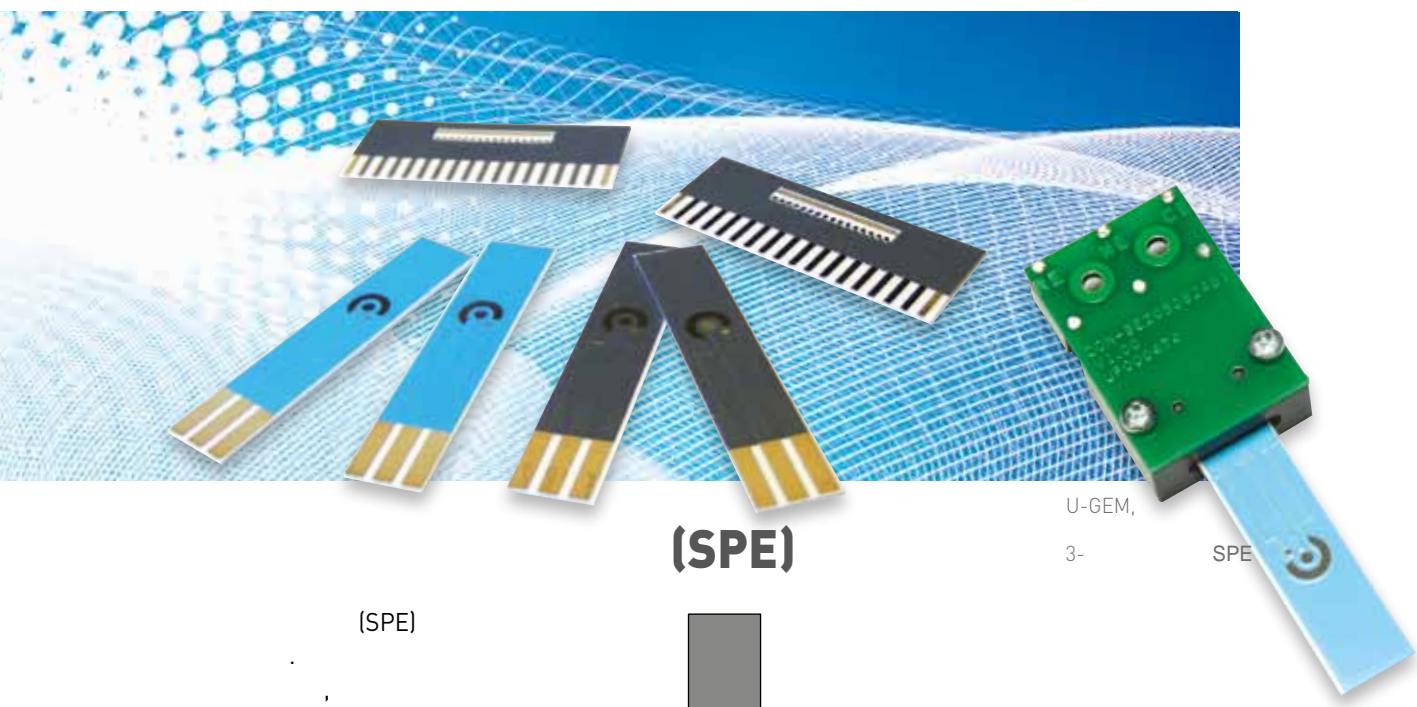


The passivation membrane is a Novolac resin + naphtoquinone-diazido compounds.

IDA			N°	Catalog n°
2	2	2	65	A-012257
2	2	2	65	A-012258
2	2	2	65	A-012261
2	2	2	65	A-012264
3	3	2	65	A-012129
3	3	2	65	A-012130
3	3	2	65	A-012260
3	3	2	65	A-012263
10	5	2	65	A-012125
10	5	2	65	A-012126
(ITO)		10	5	65
		10	5	100±20
		10	5	1200±100
		10	5	A-012259
		10	5	A-012262
ITO		10	5	65
		10	5	100±200
		10	5	A-012265
		10	5	A-012266
IDA				A-011066
Ag/AgCl				A-011464



				Catalog n°
(3)		6	4	A-002081
(3)		6	4	A-002082
(3)		6	4	A-002083



(SPE)

SPE (25-100 µm).
SPE (25-100 µm).
Bio-Logic, 16 (16)

U-GEM, 3- SPE

Catalog n°

Ø 2	Ag/AgCl	AI	100	G-GGA/1
0.5 x 1	Ag/AgCl	AI	500	G-GGA/2
4/1	Ag/AgCl	FR1	100	G-GGP/1
50 x 10	Ag/AgCl	FR1	500	G-GGP/2
	Ag/AgCl	AI	100	G-PTGA/1
	Ag/AgCl	AI	500	G-PTGA/2
	Ag/AgCl	FR1	100	G-PTGP/1
	Ag/AgCl	FR1	500	G-PTGP/2
	Ag/AgCl	AI	100	G-AUGA/1
	Ag/AgCl	AI	500	G-AUGA/2
	Ag/AgCl	FR1	100	G-AUGP/1
	Ag/AgCl	FR1	500	G-AUGP/2

(2 " ") U-GEM

Catalog n°

Ø 0.8	Ag/AgCl	AI	100	G-A-GA/1
20 x 1	Ag/AgCl	AI	500	G-A-GA/2
45 x 19	Ag/AgCl	FR1	100	G-A-GP/1
	Ag/AgCl	FR1	500	G-A-GP/2
	Ag/AgCl	AI	100	G-A-PTA/1
	Ag/AgCl	AI	500	G-A-PTA/2
	Ag/AgCl	FR1	100	G-A-PTP/1
	Ag/AgCl	FR1	500	G-A-PTP/2
	Ag/AgCl	AI	100	G-A-AUA/1
	Ag/AgCl	AI	500	G-A-AUA/2
	Ag/AgCl	FR1	100	G-A-AUP/1
	Ag/AgCl	FR1	500	G-A-AUP/2



2
~ 1
:

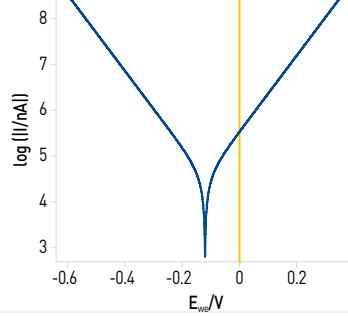
1	1	
PTFE		
PTFE	, H 102	
	[2]	
25	12	
1	2	
	8	
	80 , 8	
	100 , 2 "	
12	- 8 (4)	

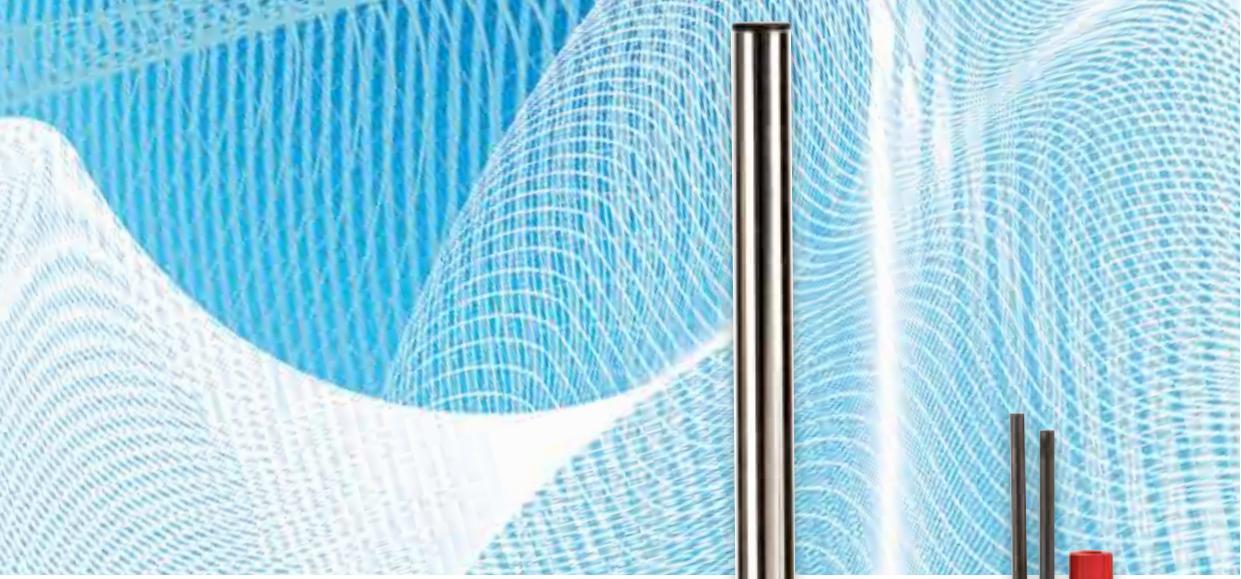
EL-CORR-1	EL-CORR-2	Catalog n°
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EL-C-003
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EL-C-004
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EL-C-005
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EL-C-017
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	R-X31M012

PT100	{	}	6	EL-C-008
				EL-C-014
			PT100	EL-C-015A
			220	EL-C-015B
			110	EL-C-018

10	4	[CoralPor™]	PTFE [200]	092-VYC4
500	2	(EL-C-020 EL-C-021,)	

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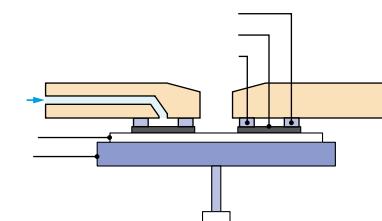




Avesta

Avesta,
(ASTM G150).

Avesta	Catalog n°
Avesta	EL-AV-001
250	(EL-AV-008),
0,5	5 / .
PTFE	EL-AV-002
5	EL-AV-003
0-	EL-AV-004
PTFE	EL-A-005
	EL-AV-006
(100)	EL-AV-007
(2)	EL-C-009
6	EL-AV-010
	EL-C-011
	EL-AV-012
	EL-AV-015
	EL-AV-008
	EL-AV-013
8	EL-AV-014
PT100	EL-C-014
10	092-VYC4
[CoralPor™]	4 PTFE (200)





1, 10

2

250

1 10 2

17,6 2 8,3

10

1	2	Catalog n°
1	2	EL-FLAT
RE-2B (: 90 , : 6)		A-002056
(54 / 80), 25 x 35		A-702439
(6)		EL-F-004
EL-FLAT-3	1 2	EL-FLAT-3
		EL-F-002
		EL-FLAT-3H
1 2		

10	2	Catalog n°
10	2	EL-FLAT-2
RE-2B (: 90 , : 6)		A-002056
(54 / 80), 25 x 35		A-702439
(6)		EL-F-004
EL-FLAT-4	10 2	EL-FLAT-4
		EL-F-002
		EL-FLAT-4H
10 2		

PVDF *

	48%	98%	85%	35%	70%	50%						
	20° C	50° C										
PTFE	■	■	■	■	■	■	■	■	■	■	■	■
PVDF*	■	■	■	■	■	■	■	■	■	■	■	■

PVDF* []	Catalog n°
EPDM O- 1 2 PEEK	EL-F-PVDF
EPDM O- 10 2 PEEK	EL-SEAL-1B
PTFE O- 1 2 PEEK	EL-SEAL-10B
PTFE O- 10 2 PEEK	EL-SEAL-T1B
EPDM O- 1 2**	EL-SEAL-1
EPDM O- 10 2**	EL-SEAL-10
PTFE O- 1 2**	EL-SEAL-T1
PTFE O- 1 2**	EL-SEAL-T10
10 4 [CoralPor™] . PTFE [200]	092-VYC4

*

** O-

4 O-

10 O-



1 10 2

1	2	Catalog n°
1	2	EL-GAL-1
1	2	EL-FLAT
1	2	092-FLAT/1

10	2	Catalog n°
10	2	EL-GAL-10
10	2	EL-FLAT-2
10	2	092-FLAT/10

1 10 2



1 2

1

Catalog n°
A-011951
PTFE [](1)
0- [1]
20 [1]
, 100 [1]
A-002222
0- [10]
A-012022

Catalog n°
EL-COAT
EL-P-002
3
2
0-
(: 145 , : 6)

Ag/AgCl	(: 6)	A-012167
6	-	EL-P-008
1 2 [20]	-	EL-P-011
5 2 [20]	-	EL-P-012
10 2 [20]	-	EL-P-013



Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell

Connection accessories

1 - 100



Catalog n°						
5	18	15.6	30	10	VC-4	A-011504
20	28	25.6	50	10	SVC-2, SVC-3	A-001056
100	50	46.4	72	1	RRDE-3A,	A-012632
5	40	15.6	40	1	VC-4	A-012672
20	55	25.6	50	1	SVC-2, SVC-3	A-001051
100	70	46.4	80	1	RRDE-3A,	A-012652
20				1	SVC-2, SVC-3	A-001209
	80	90	62	80	EL-ELECTRO-1	EL-A-001
	1,000	120	90	175	EL-CORR-1	EL-C-001
	80	90	62	85	EL-ELECTRO-2	EL-A-002
	1,000	120	90	200	EL-CORR-2	EL-C-002
		(1)		1	EL-CORR-1	EL-C-019

Analytical cell

100 - 2,000



EL-C-019,
EL-C-001

Dimensions in mm

Corrosion cell

Glassware

Electrodes

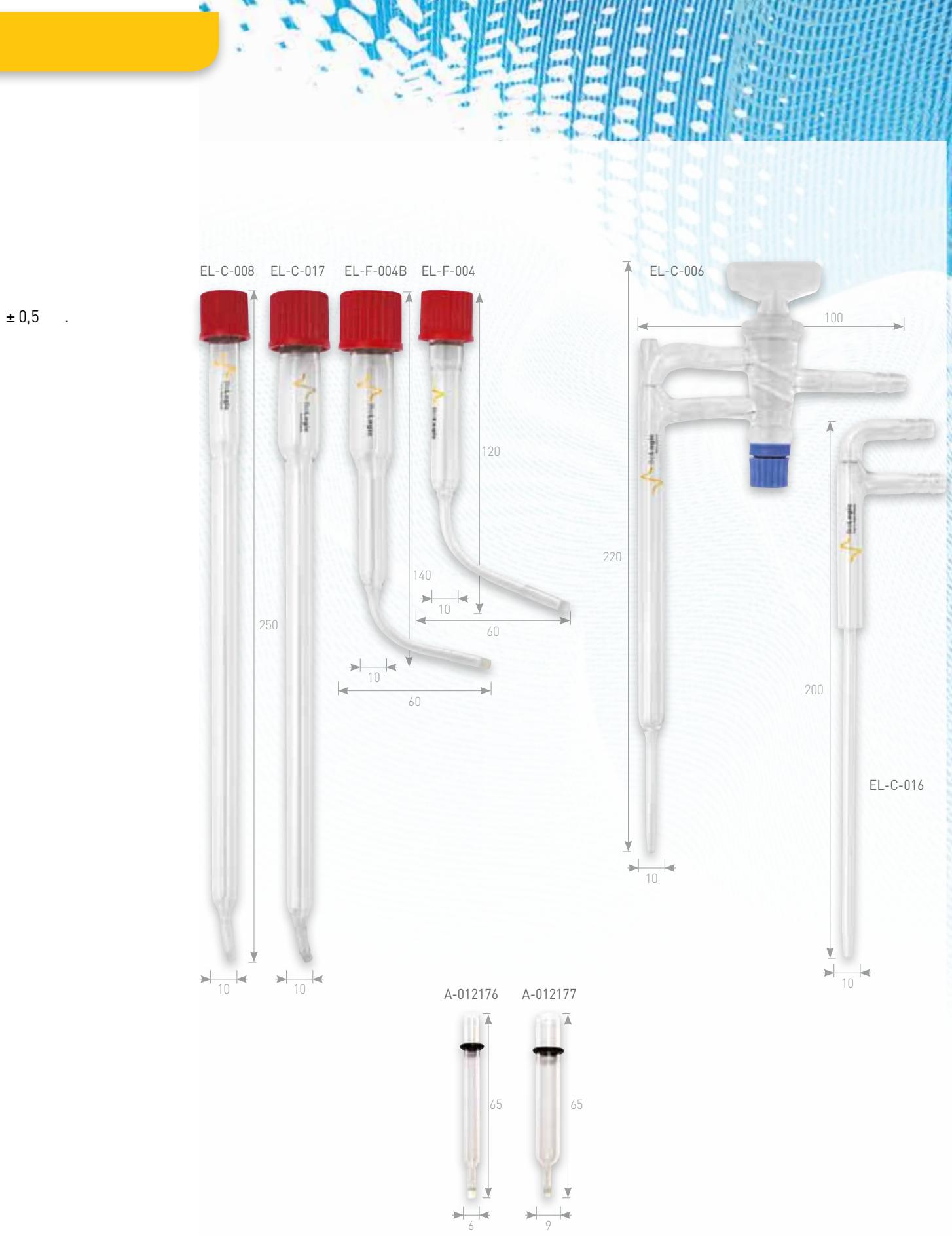
Rotating electrodes

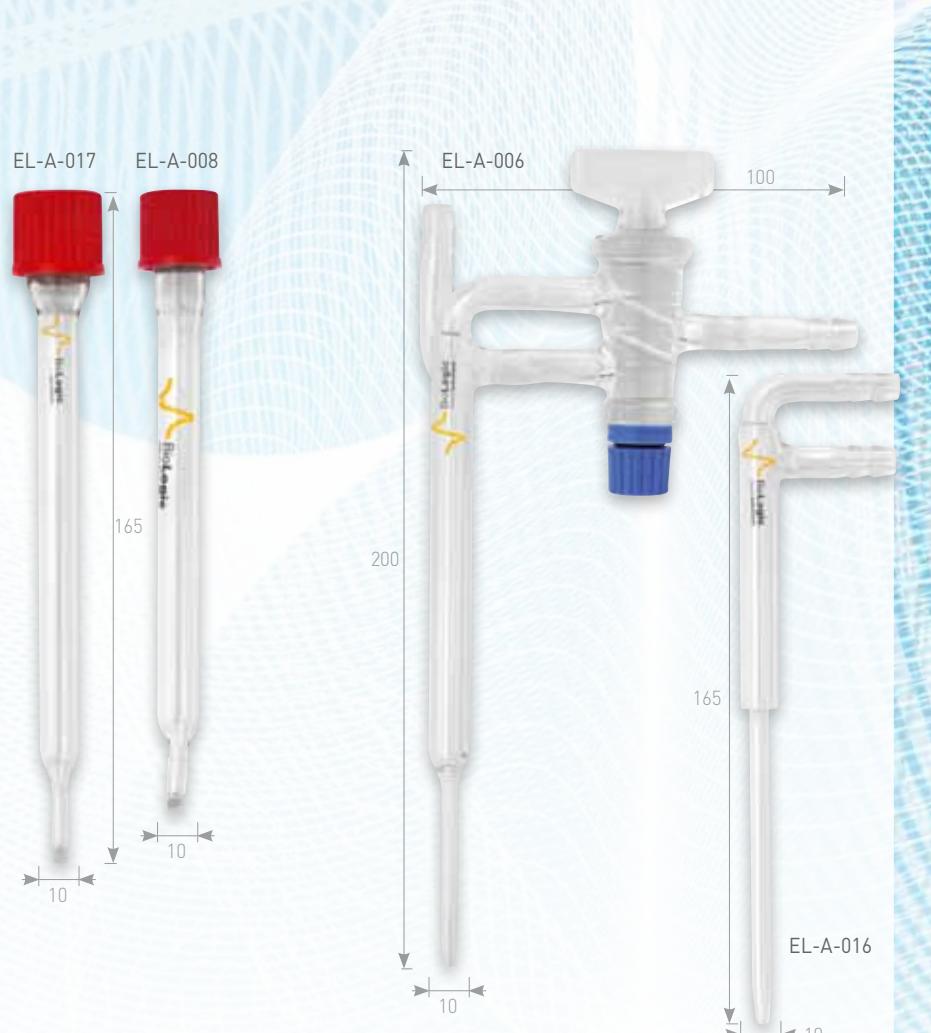
Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell
Connection accessories





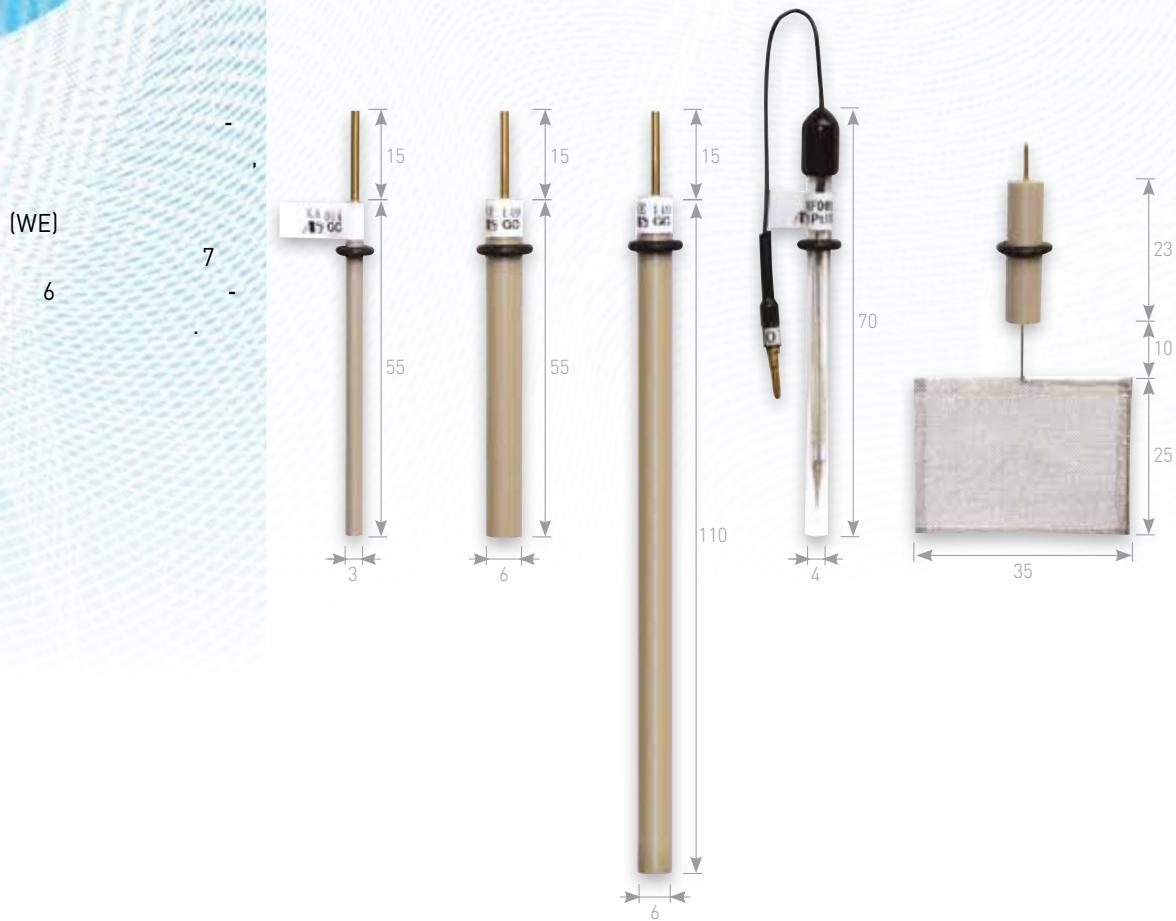
Catalog n°

Ø 6	6	68	2	SVC-2, SVC-3	092-VYC3 ^[1]	A-012176
Ø 6	6	68	22	SVC-2, SVC-3		A-012306
Ø 9	9	68	2	SVC-2		A-012177
Ø 9	9	68	22	SVC-2		A-012307
Ø 6	10	250	1	EL-CORR	092-VYC4 ^[2]	EL-C-008
Ø 8	10	250	1	EL-CORR		EL-C-017
	10	120	1	EL-FLAT		EL-F-004
	10	140	1	EL-FLAT		EL-F-004B
Ø 8	10	165	1	EL-ELECTRO		EL-A-017
Ø 6	10	155	1	EL-ELECTRO		EL-A-008
	10	165	1	EL-ELECTRO		EL-A-016
	10	200	1	EL-ELECTRO		EL-A-006
	10	200	1	EL-CORR		EL-C-016
	10	220	1	EL-CORR		EL-C-006
	12	70	1			R-AL100
	8	250	1			R-AL110
	8	138	1			R-AL210
	8	138	1			R-AL120

[1] 10 2,8 [CoralPor™] PTFE (200) 092-VYC3
 [2] 10 4 [CoralPor™] PTFE (200) 092-VYC4

Dimensions in mm

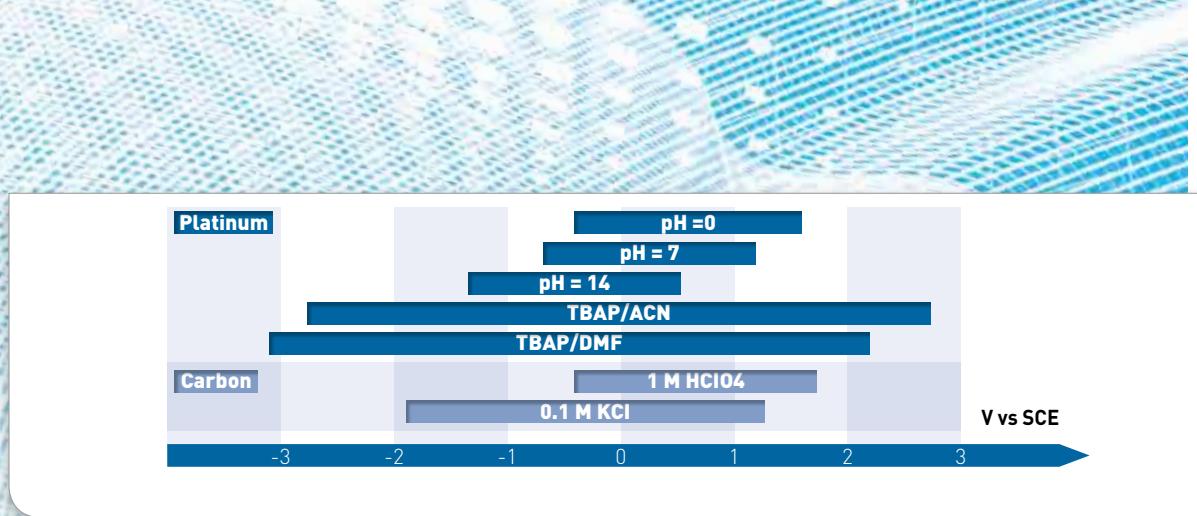
16/17



PK-3		Catalog n°	
		A-011975	
0.05	-	Al (20	A-001050
1		(10)	A-002054
	(1 .)		A-002249
		Al (10)	-
		(10)	-
		Al [20]	A-001040
		[20]	A-001041
UF800			A-012611
			A-001042
6	(10)		A-002053



Dimensions in mm



			- ±4%	Catalog n°
	PEEK	6	3	A-012744
	PEEK	10	5	A-002417
	PEEK	6	3	A-002012
	PEEK	6	1.6	A-012297
	PEEK	6	1	A-002411
	PEEK	3	1.6	A-012298
	PEEK	3	1	A-002412
		4	33	A-002002
		4	7	A-002007
	-	PEEK	6	A-002252
	-	PEEK	6	A-002253
PFCE	PEEK	6	3	A-002408
PFCE	PEEK	6	1	A-002409
PFCE	PEEK	3	1	A-011854
	PEEK	80 mesh	25 x 35	A-002250
	PEEK	6	3	A-012745
	PEEK	10	5	A-002420
	PEEK	6	3	A-002422
	PEEK	6	1.6	A-002013
	PEEK	3	1.6	A-002313
		4	100	A-002009
		4	25	A-002003
		4	15	A-002015
		4	10	A-002005
	PEEK	100 mesh	25 x 35	A-002251
	PEEK	6	3	A-012746
	PEEK	10	5	A-002418
	PEEK	6	3	A-002421
	PEEK	6	1.6	A-002014
	PEEK	3	1.6	A-002314
		4	100	A-002010
		4	25	A-002004
		4	10	A-002006
	PEEK	10	5	A-002416
	PEEK	6	3	A-002419
	PEEK	6	1.6	A-002011
	PEEK	3	1.6	A-002315
	PEEK	6	1.6	A-002019
	PEEK	3	1.6	A-002319
	PEEK	6	1.5	A-002016
		4	100	A-002273
	PEEK	6	1.6	A-002017
	PEEK	6	3	A-012584
		4	25	A-002271
	PEEK	6	1.5	A-002018
	PEEK	6	3	A-012585
4	PEEK	6	3	A-002210
4	PEEK	3	1.6	A-002223
1	PEEK			A-001010

Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell

Connection accessories

(Ag/AgCl, Hg)



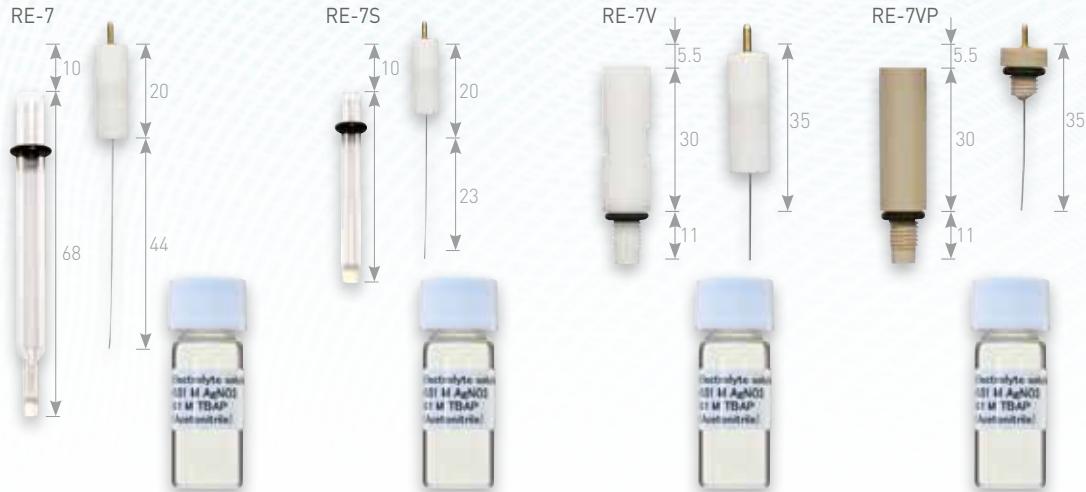
(Ag/AgCl, Hg)

			Catalog n°
RE-1B	11	3 M NaCl	A-012167
RE-1S	11	3 M NaCl	A-012168
RE-1C		KCl SVC-2, SVC-3, VC-4, RRDE-3A,	A-002058
RE-3V		3 M NaCl SEC-3F	A-012169
RE-3VP Ag/AgCl PEEK		3 M NaCl SEC-3F	A-012170
Ag/AgCl	2	0.2 Ω/sq/25.4 50,000±10,000 CP @21.1 °C 82 °C	CV, IDA A-011464
RE-2B		KCl SVC-2, SVC-3, VC-4, RRDE-3A,	A-002056
RE-2C Hg ₂ SO ₄		K ₂ SO ₄	A-002057
RE-6A Hg/HgO		1M NaOH	A-012974
RHE		HCl H ₂ SO ₄	[pH < 2] A-013373

[1] 10 2,8 [CoralPor™] PTFE (200) **092-VYC3**

Options

RE-PV	10	A-012108
Ø 9.0 [2]		A-012177
Ø 9.0 [22]		A-012307
RHE		A-013375

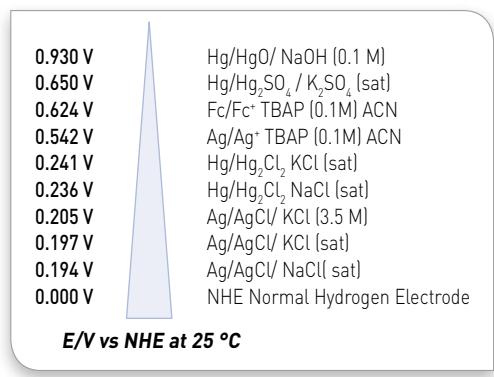
(Ag/Ag⁺)(Ag/Ag⁺)

			Catalog n°
RE-7	(Ag/Ag ⁺) ^[1]	Ag/Ag/ACN*/TBAP**	CV A-012171
RE-7S	(Ag/Ag ⁺) ^[1]	Ag/Ag*/ACN*/TBAP**	SECM A-012172
RE-7V	(Ag/Ag ⁺)	Ag/Ag/ACN*/TBAP**	. . A-012173
RE-7VP	(Ag/Ag ⁺)	Ag/Ag/ACN*/TBAP**	. . A-012174

(10)			A-012549
PTFE	Ag	(RE-7)	A-012057
PTFE	Ag	(RE-7S)	A-012058
6		(RE-7) [2]	A-012176
[1] 10	2,8	[CoralPor™]	092-VYC3
RE-PV		, 10	A-012108
Ø 9.0	(2)		A-012177
Ø 9.0	(22)		A-012307

*

**



Dimensions in mm

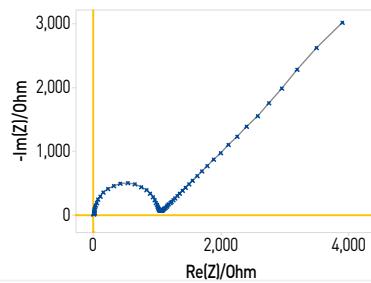
R-REF621 R-XR110 R-XR200 R-XR300 R-XR400 R-XR820



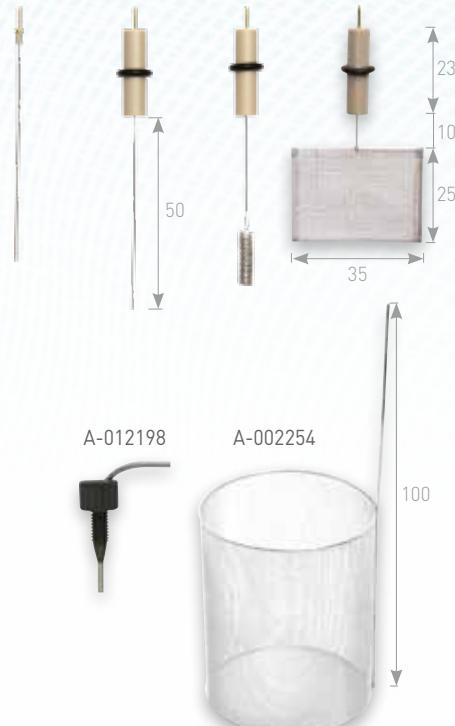
Catalog n°

			103	7.5	R-REF201	
			103	12	R-REF251	
		[1]	103	8	R-REF421	
Hg/HgSO ₄	K ₂ SO ₄	" "	103	7.5	R-REF601	
		[1]	103	8	R-REF621	
	[LiCl]	.	103	8	R-REF921	
	KCl	CV,	.	[1]	R-XR110	
	KCl	CV,	.	[1]	R-XR150	
Hg/HgSO ₄	K ₂ SO ₄	CV	.	[1]	R-XR200	
Ag/AgCl	KCl	CV	.	[1]	R-XR300	
Hg/HgO	0.1 M KOH	CV	.	[1]	R-XR400	
Hg/HgO	1M KOH	-	.	[1]	R-XR440	
Ag/AgCl	EIS	.	[1]	160	8	R-XR820

{1}		" "	2	1	R-CRI9439	
		" "	2	100	R-A94L111	
Bio-Logic		" "	4	1	R-CL111	
				70	12	R-AL100
				138	8	R-AL120
				250	8	R-AL110
				138	8	R-AL210
					R-X31M012	



A-002222 A-002233 A-002234 A-002250



R-XM110 R-XM120 R-XM140 R-XM150

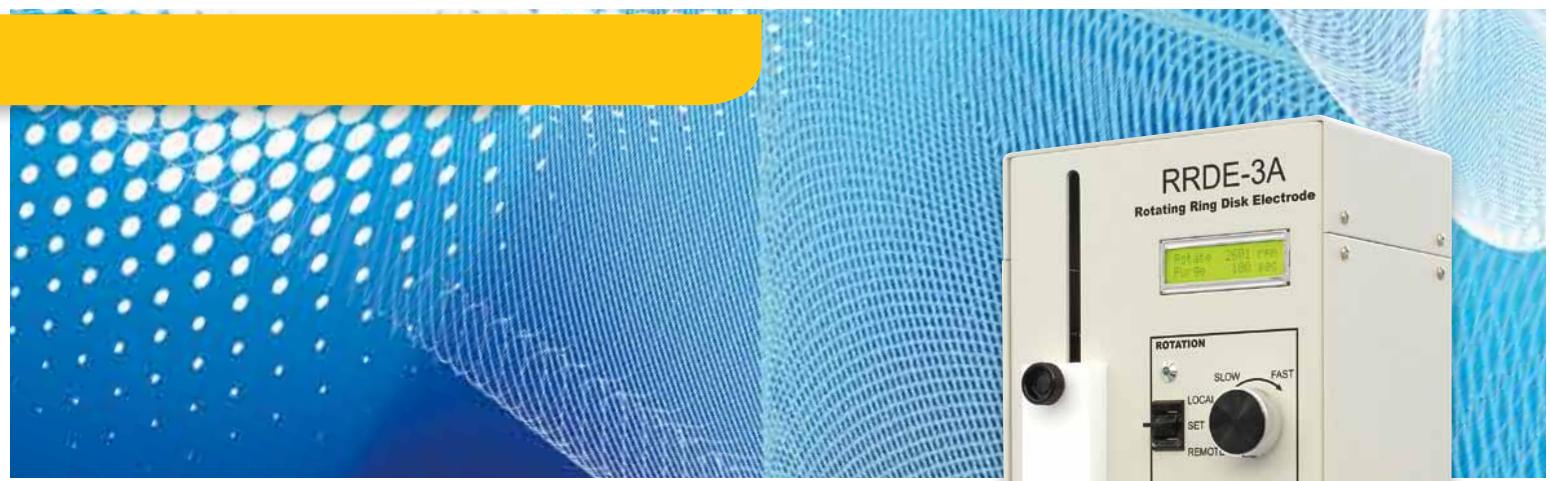


	\emptyset				Catalog n°
	57	0.5	~ 0.7	²	SVC-2, VC-4, A-002222
	50	0.5	~ 0.7	²	SVC-3 A-002233
	230	0.5	~ 3.6	²	RRDE-3A, . SVC-3 A-002234
	230	0.5	~ 3.6	²	RRDE-3A, . SVC-3 A-012638
	230	0.5	~ 3.6	²	RRDE-3A, . SVC-3 A-012639
	50	1.5	~ 2.35	²	A-012198
- , PEEK	80	25 x 35	0.08	~ 1	² A-002250
, Pt	51	25 x 35	0.08	~ 1	² A-702439
, PEEK	100	25 x 35	0.07	~ 1	² A-002251
	55	40 x 50	0.12	~ 5.1	² A-002254

	Catalog n°			
{1}	80	8	\emptyset 1	R-XM110
	120	8	5 x 5	R-XM120
	120	8	8 x 8	R-XM140
{1}	120	12	10	R-XM150
	103	8	\emptyset 3	R-M291C

{1}	1 ,	"	" 2	R-CRI9439
Bio-Logic	100 ,	"	" 2	R-A94L111
	1 ,	"	" 4	R-CL111
8	12	{4 }		R-X31M012

Dimensions in mm



(RRDE)

RRDE-3A

(RDE RRDE)
)

RRDE-3A

RRDE-3A

Bio-Logic.



(10 - 15),

100 - 8,000 /
1 /
< 0.1%
PLL ()
60 3,500 /
1,000 /

Inlet gas pressure 5 PSI
10-50 °C
100-240 , 50/60
185 x (: 230, : 120) x 400
6

Catalog n°	
RRDE-3A	A-012180
(. 25), (. 23)	(20)

RRDE-3A	100	A-012632
		A-012064
		A-012065
Tygon , 6.4 x 3.2 (1.3)		A-010058
PTFE RRDE-3A		A-012631

[100 , 70 , 46.4 , 80)	A-012652
DB9 RRDE-3A	092-22/11
	092-22/12
	A-012625



A-011172 A-011162 A-011163 A-011164 A-011170 A-011171 A-011169

							Ø	Catalog n°
RRDE		Pt	/Pt	25	12	5.0	7.0	4.0 A-011172
			/	25	12	5.0	7.0	4.0 A-011162
	Ø 4	Au	/	25	12	5.0	7.0	4.0 A-011163
	Ø 7	Pt	/ Au	25	12	5.0	7.0	4.0 A-011164
	Ø 12	Au	/Pt	25	12	5.0	7.0	4.0 A-012617
			/	25	12	5.0	7.0	4.0 A-012618
RDE				25	12	-	-	3.0 A-011169
				25	12	-	-	3.0 A-011170
	Ø 3			25	12	-	-	3.0 A-011171
	Ø 12			25	12	-	-	3.0 A-011966
				25	12	-	-	3.0 A-011967
				25	12	-	-	3.0 A-011968
				25	12	-	-	3.0 A-011969
				25	12	-	-	3.0 A-011970
				25	12	-	-	3.0 A-011971
				25	12	-	-	3.0 A-011972
			4	25	12	-	-	3.0 A-011973

PK-3

A-011975

				Catalog n°
RRDE		/	,	A-013336
				A-013337
				A-013338
RDE	PTFE	(3)		A-013339
				A-013362
				A-013338
	PTFE	(3)		A-013339
				A-013361
				A-013364
				A-013366
	PTFE	(3)		A-013339
				A-013361
				A-013365
				A-013367
	PTFE	(3)		A-013339
				A-013361
				A-013365
				A-013367
	PTFE	(3)		A-013339
				A-013361
				A-013340



RRDE



A BLK

B



SPS

OPG

DRS

GTF

EPH

Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell

Connection accessories



(RDE)

EDI101

Bio-Logic.

Pt, Au,
EDI101

CTV101 , $\pm 0,1\%$ EDI101.

LCD.
io-Logic.

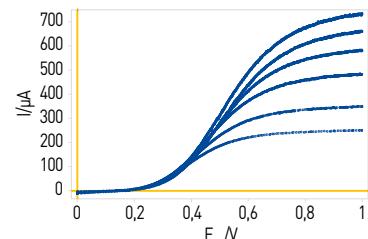
"Levich"

RDE

EL ELECTRO 3

Catalog n°
R-RDE/EDI

100 - 5,000	/
< 0.1%	
< ± 0.1	
1	/
EDI101	Kel-F
.	Ø 2
.	5 - 40 °C
230	, 47.5 - 63
12	
CTV101: 80 x 240 x 230	,
EDI101: 255	()
CTV101: 1.5	
EDI101: 0.3	



Rotating electrodes

applications

RDE

20-

(IL, A)

$$I_L = \pm 0.62 n F A D^{2/3} \omega^{1/2} v^{-1/6} C$$

$$n = \left(\frac{F}{A} \right)^{2/3} \left(\frac{D}{v} \right)^{1/6} \left(\frac{C}{F} \right)^{1/6}$$

$$A = \left(\frac{D}{v} \right)^{3/2} \left(\frac{C}{F} \right)^{1/3}$$

$$D = \left(\frac{m}{0.62 n F A v^{1/6} C} \right)^{3/2}$$

Levich

(III),

5,5

KCl (0,1 M)

RRDE

RRDE

SP-300

RRDE



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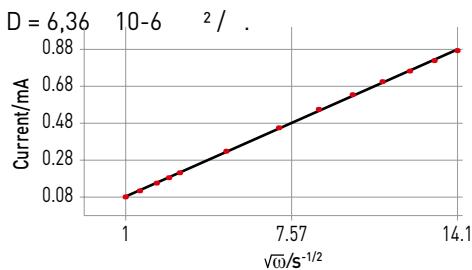
Bio-Logic

13
2000

10
13

Bio-Logic (

(D)



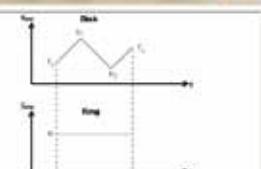
EC-Lab®

CV

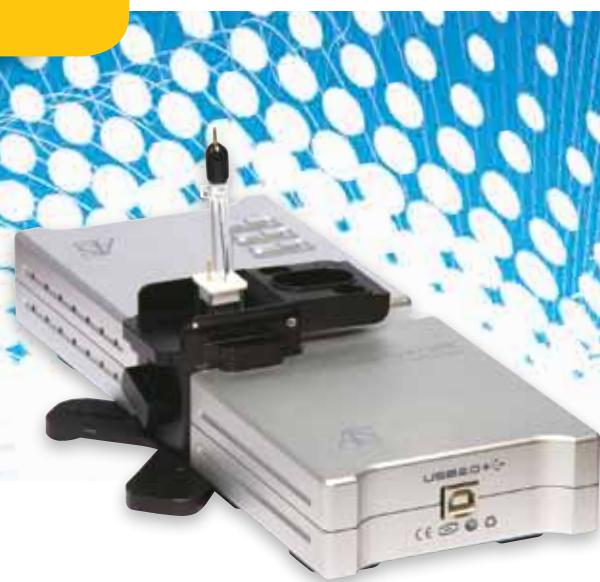
CV-CA,

Insert Techniques

- Electrochemical Techniques
 - Voltaic Kinetic Techniques
 - Impedance Spectroscopy
 - Pulse Techniques
 - Tafel Analysis
 - Micro-Disk
 - Ultrasound Determination
 - Electro-UV
 - Electro-IR
 - Electro-NMR
 - Electro-MS
 - Electro-UV-vis Spectroscopy
 - Electro-Chromatography
 - Electro-Viscometry
 - Electro-Photometry
 - Electro-CA
- Electrochemical Applications
 - Battery Testing
 - Electro-Contact
 - Electro-Medical Cells
 - Corrosion
 - Corrosion Applications
 - Special Applications

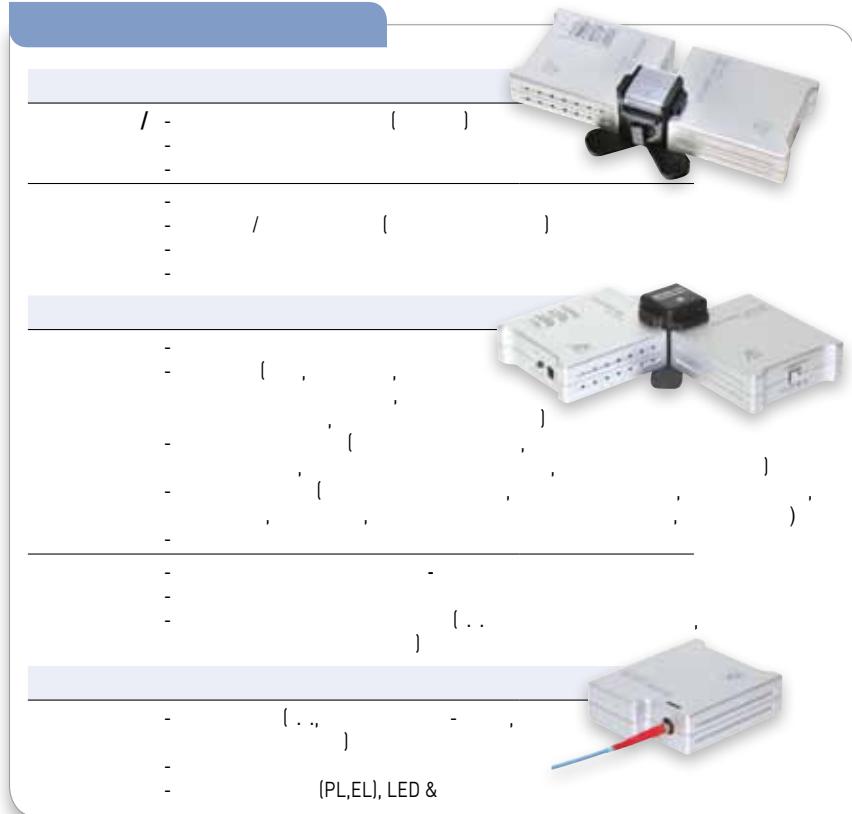


CV-CA by potentiostat technique allows the user to perform Cyclic voltammetry (CV) technique on one electrode and ChronoAmperometry (CA) technique on another electrode. One technique controls two channels of the potentiostat. And both channels are synchronized (start and stop of the measuring and same measurement). This technique is especially dedicated to Perkin Elmer Disk Electrode (PDE) www.perkinelmer.com



(SEC),

{
}.



SEC2000-UV/VIS

SEC2000-UV/VIS

Catalog n°

A-012838

SEC2000-VIS/NIR

SEC2000-VIS/NIR

Catalog n°

A-012973

SEC2000-UV/VIS

A-012856

SEC2000-VIS/NIR

A-012971

SEC2000-DH UV

A-012193

SEC2000-TH visible

A-012194

SEC2000-CUV

A-012195

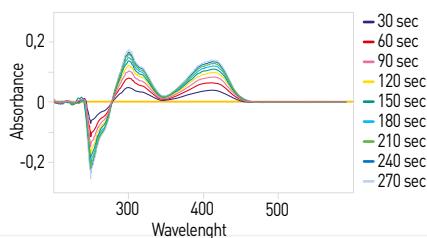
SEC2000-CUV

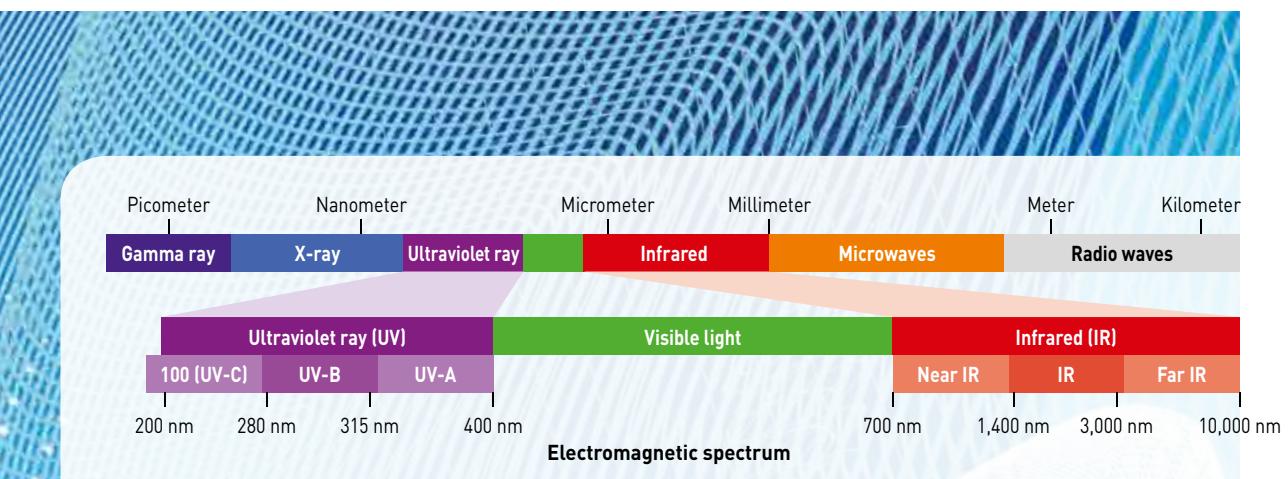
A-012244

Option

Bio-Logic

092-22/11





SEC2000-UV/VIS		SEC2000-VIS/NIR	
2,048	CCD	2,048	CCD
220 - 800		500 - 1,000	
400		700	
1.8 ±0.2	: 50 x 1,000 () ¹⁾	1.8 ±0.2	: 50 x 1,000 () ¹⁾
< 1% at a Abs		< 1% at a Abs	
< 2 mAbs		< 2 mAbs	
A/D	14	14	
	SMA905	SMA905	
	USB 2.0	USB 2.0	
	Windows™ XP	Windows™ XP	
[x x]	98 x 118 x 35	98 x 118 x 35	
Catalog n°	A-012856	A-012971	

(1).

: 10, 25, 100, 200



SEC2000-DH		SEC2000-TH	
[.+ D2]		[.]	
200 - 1,100		360 - 2,000	
200 - 400		-	
< 5 x 10 ⁻⁸ W/nmsr		-	
1 x 10 ⁻³ AU		-	
< 0.25%		-	
[2]	> 1,000	-	
	> 2,000	1,500	
	SMA905	SMA905	
	98 x 118 x 35	98 x 118 x 35	
Catalog n°	A-012193	A-012194	
	A-012221 (UV)	A-012222 (TV)	

(2).

50%

240



SEC2000-UV/VIS		SEC2000-VIS/NIR	
Catalog n°	A-012195	Catalog n°	A-012244

Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Quartz crystal analyzer

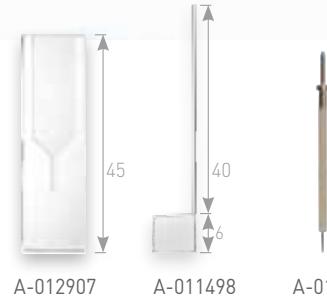
Battery accessories

Fuel cell

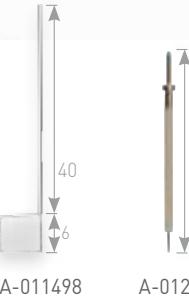
Connection accessories



A-012904



A-012907



A-012906

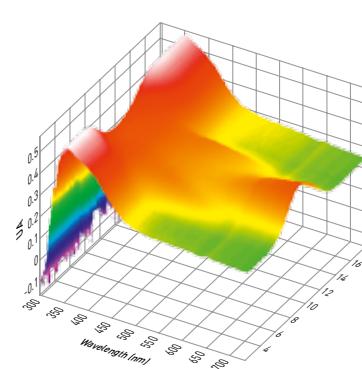
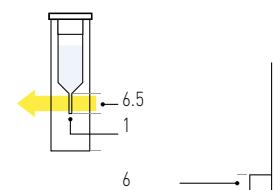
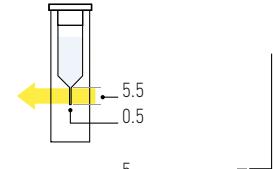


A-011501

100

↓

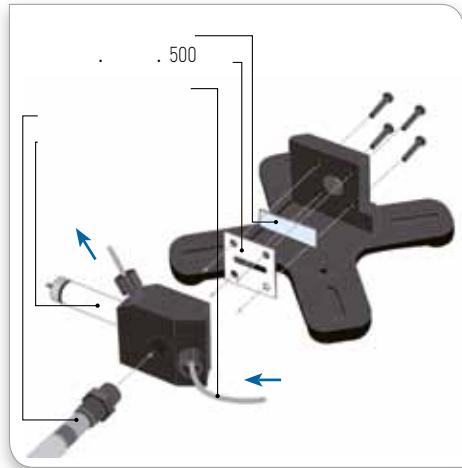
0.5	Catalog n°	Catalog n°
A-012813	A-012814	
	A-012609	A-012609
	A-012815	A-012815
PTFE	A-011501	A-011501
(ETFE, 100)	-	-
	A-012606	A-012607
80	5	5
	A-012904	A-012905
1		
	A-012906	A-012906
	A-012907	A-012907
PTFE	A-011501	A-011501
(ETFE, 100)	-	-
	A-011498	A-012017
80	6	6
RE-1B Ag/AgCl		A-012167
RE-7		A-012171
(ETFE), 1		A-010537





Catalog n°			
SEC-2F		A-012660	
SEC-2F	1	-	
	1	-	
A	1	-	
B	1	-	
SEC-2F S500	2	A-012661	
1.59 (50)	1	A-012198	
	1	-	
PEEK	2	-	
(300)	1	-	
PTFE (1)	1	-	
Ø 10 x 55	RE-3V	A-012169	
	RE-3VP (PEEK)	A-012170	
	RE-7V	A-012173	
	RE-7VP (PEEK)	A-012174	
8 x 27 x 1	(1)	A-012655	
	(1)	A-012656	
	(1)	A-012657	
	(4)*	A-012658	
8 x 27 x 0.5 mm	(12)	A-011465	
10 x 20 x 0.5 mm	(10)	A-010887	
10 x 10 x 0.5 mm	(30)	A-011233	
Ø 4 inch x 0.5 mm	(1)	A-011827	
	S500, 500	(4)	A-012661
PTFE	T500, 500	(4)	A-012664
	T250, 250	(4)	A-012665
	T100, 100	(4)	A-012666
400	SR, 250		A-012667
400	SR, 2		A-011522
UV/VIS	, 200-2,000		A-012234

*



A-012656

100	4.6
250	11.5
500	230

Analytical cell

Corrosion cell

Glassware

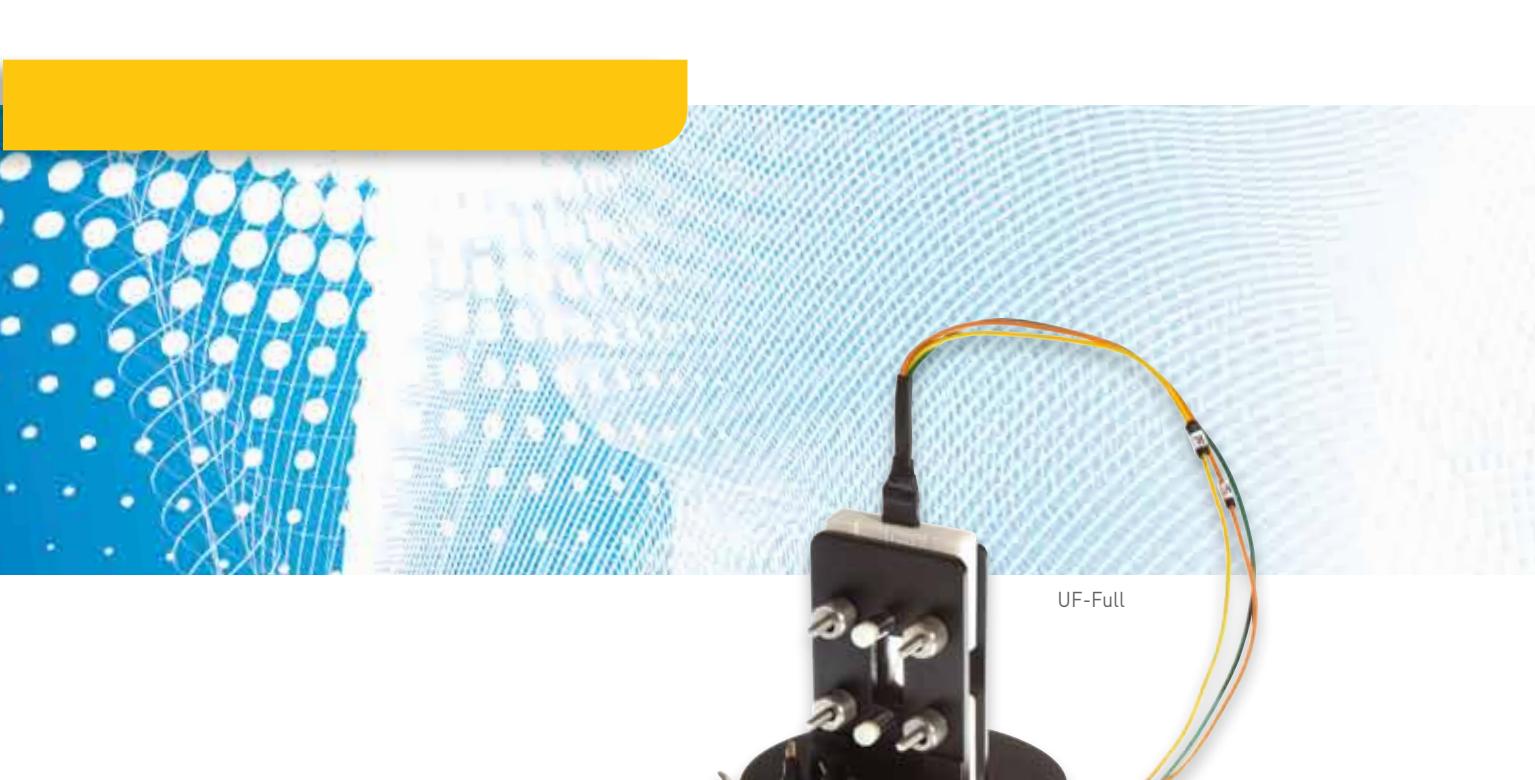
Electrodes

Rotating electrodes

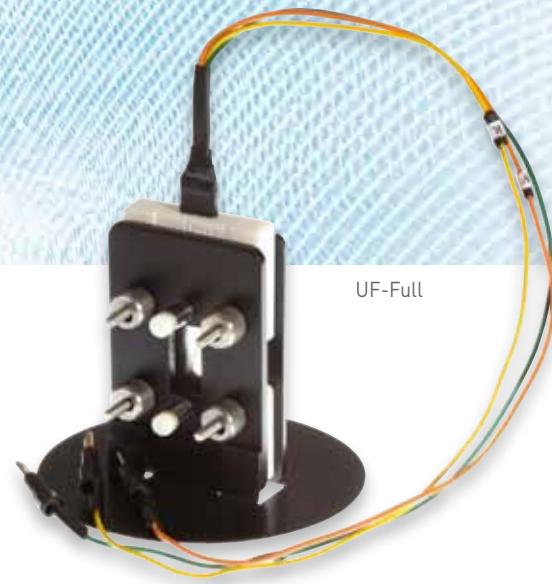
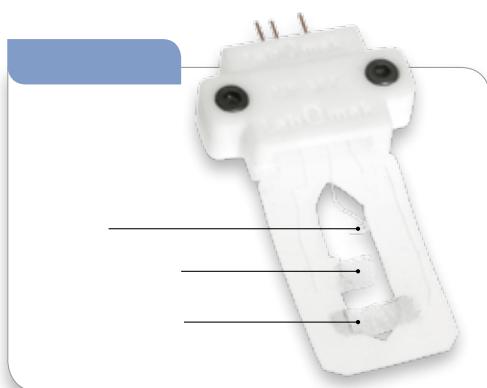
Quartz crystal analyzer

Battery accessories

Fuel cell
Connection accessories



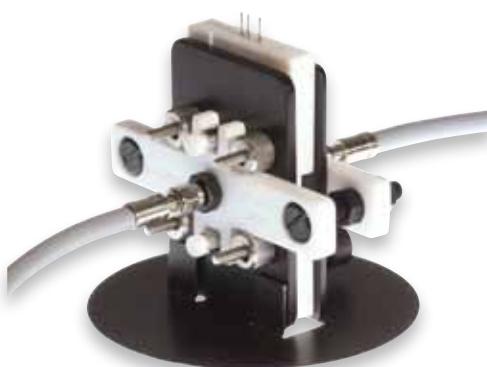
UFS



Catalog n°

UF-Full

1 PTFE	+ 1	(Pt	Au	- /Pt	/	UF-SEC
Ag)					
XY	(	)				UF-XY
PTFE						UF-P
PTFE						UF-M
PTFE		UV/VIS/NIR		(200-2500	),	UF-OFA
		, SMA-905)		
						UF-BS
PTFE			UF-OFA	UF-BS		UF-C
1	(Pt	- /Pt	/Ag		)	UF-SPP
1	(Au	- /Pt	/Ag		)	UF-SPA
		: SMA-SMA	1			092-101



PTFE

Full kit +

+



Spectroelectrochemistry

applications

(d0.2)

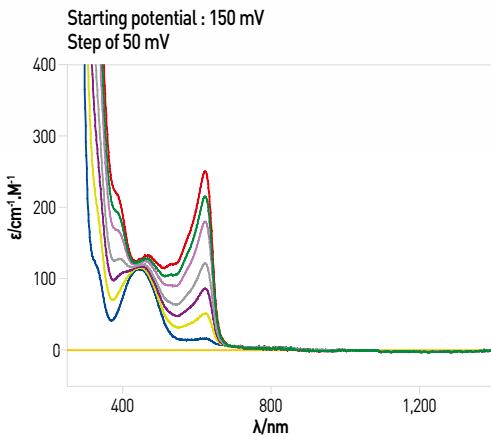
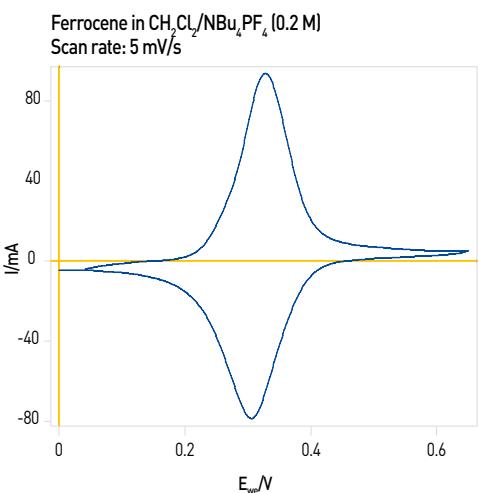
{1) {2).

{2-10 /)

SEC

,UF

).



[1]: M. Krejčík, M. Daněk and F. Hartl, J. Electroanal. Chem.,

1991, 317, 179.

[2]: P. Leoni, F. Marchetti, C. Bonaccorsi, F. Fabrizi de Biani, L. Marchetti, P. Zanello, Chem. Eur. J., 2008, 14, 847

Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell
Connection accessories



EQCM

(QCA922)

DB9-8BNC

N °: 092-22 / 1).

Bio-Logic

EQCM

Catalog n°

SE-QCA922B

9

EQCM 9 (5)

SE-QCA922-00

BNC/BNC (2 , 1)

SE-QCA922-10

COR28100

QCM QCM

QCA

092-QCA-FC

SE-CL3

(PTFE)

SE-CL4

(PEEK)

SE-CL4PK

SE-CL5

(90) (PTFE)

SE-CL6

(90) (PTFE)

SE-CL7

(90) (PEEK)

SE-CL6PK

092-22/1

EL-AV-008

EQCM

1 -10 , 0.1

10-16 Ω, 0.1 Ω

ΔF : ± 10 (12)

±200 / ±2 / ±20 / ±200

: 0-10 (11)

1 / 2 / 4 / 8 / 16 Ω

(0.1, 1.0, 10.0)

40 x 2

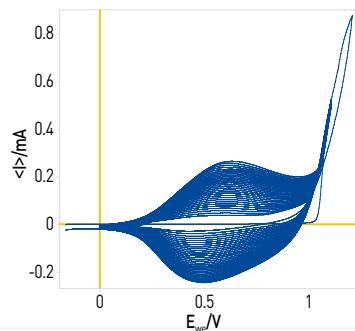
IEEE-488, RS-232C

[x x] 260 x 230 x 88

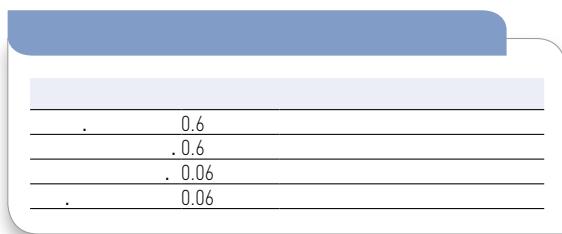
3.3

0 - 40 °C

100-120 , 230-240 , 50-60 , (15)



			Catalog n°
5		5	
9			
		(25)	SE-5AU
		(30)	SE-9AU-E/1
		(100)	SE-9AU-E/3
		(30)	SE-9AU-P/1
		(100)	SE-9AU-P/3
		(25)	SE-9SI
		(25)	SE-9AL
		(25)	SE-9AU
		(25)	SE-9C
		(25)	SE-9CU
		(25)	SE-9MO
		(25)	SE-9NI
		(25)	SE-9PT
		(SUS304) (25)	SE-9SS
		(SUS316L) (25)	SE-9SU
	SiO ₂	(25)	SE-9SOS
		(25)	SE-9AU-S
		(25)	SE-9PT-S
	SiO ₂	(25)	SE-9SOS-S
		(SUS316L) (25)	SE-9SU-M
		(25)	SE-9AL-M
		(25)	SE-9AU-M
		(500)	SE-9AU-M2
		(25)	SE-9C-M
		(25)	SE-9CU-M
		(25)	SE-9IT-M
	SiO ₂	(25)	SE-9SOS-M
		(25)	SE-9NI-M
		(25)	SE-9PT-M
		(25)	SE-9SI-M
		(SUS304) (25)	SE-9SS-M
		(25)	SE-9TI-M
		(25)	SE-9AU-MS
		(25)	SE-9IT-MS
		(25)	SE-9PT-MS
	SiO ₂	(25)	SE-9SOS-MS
9		(50)	SE-LEAD/2
		(50)	SE-9Q/2
		[50]	SE-9Q-M/2



Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell
Connection accessories





Biosensor QCM

[27]

(QCM934)

QCM934

-

-

-

-

4

-

-

USB.

9

QCM934

(35)

25	-27	0.01
.2 Ω,	0.1 Ω	
4		
(0.1, 1.0, 10.0)		
20	x 2	
USB 2.0		
{ x x }	320 x 280 x 133	
5.5		
10 - 40 °C		
100-120	230-240	,
50-60	(60)	

Catalog n°
SE-QCM934-F
SE-QCM934-000
WinQCM
SE-QCM934-200
SE-QCM934-200A
SE-QCM934-500
(90)
SE-QCM934-510
SE-QCM934-1CHF
EL-AV-008



QCM934, "

Catalog n°
SE-QCM934-B
SE-QCM934-000
WinQCM
SE-QCM934-200
SE-QCM934-200A
OSC
SE-QCM934-300
SE-QCM934-1CHB

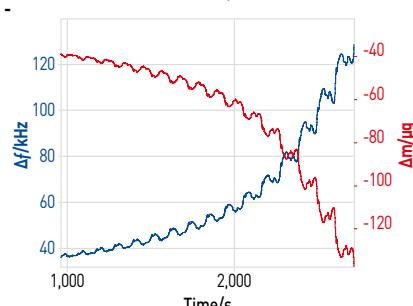
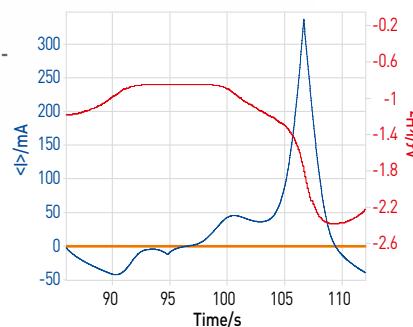
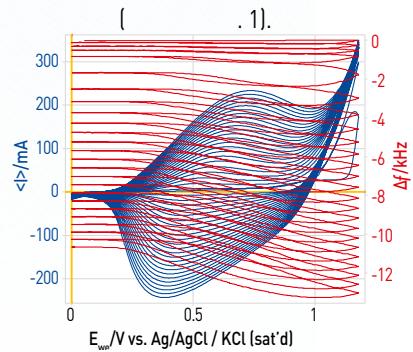
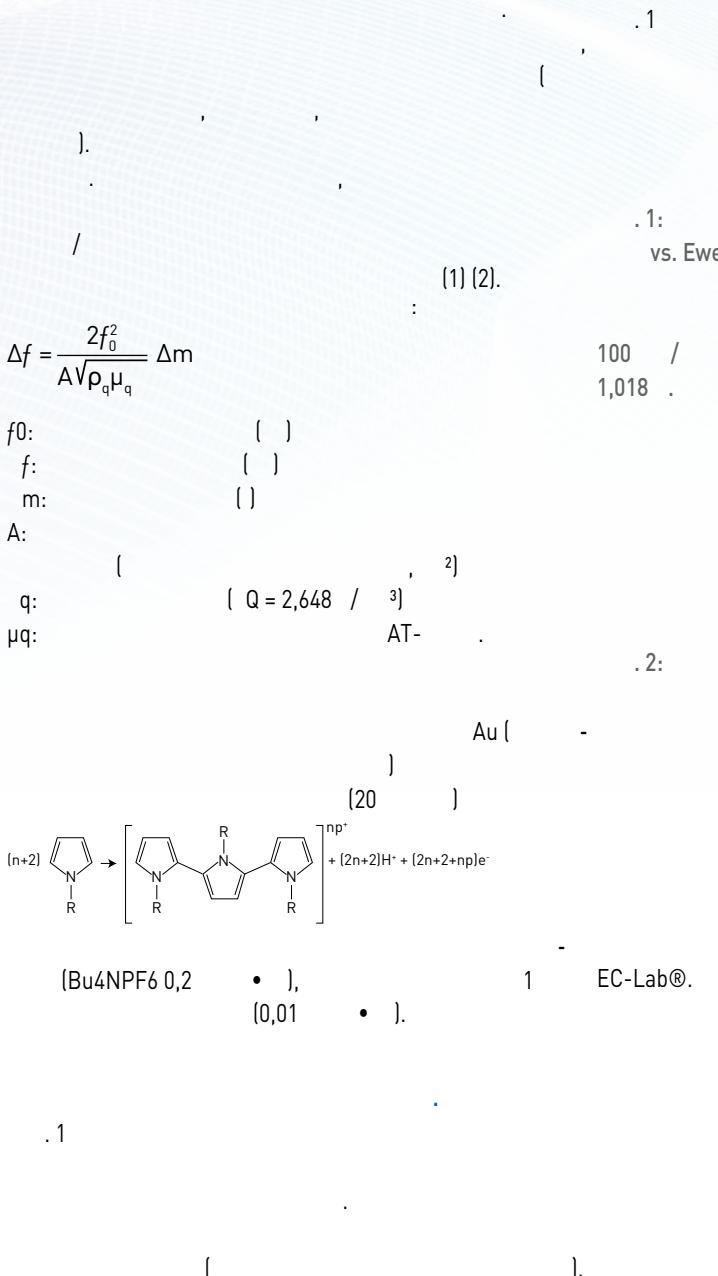


QCM934, "

Quartz crystal analyzer

applications

QCM



- [1]: G. Sauerbrey, Phys. Verh., 1957, 8, 113-114.
 [2]: G. Sauerbrey, Z. Phys., 1959, 155, 206-222.
 [3]: Application note #13. Section "Apps & literature of EC-Lab division".



3-



ECC-AIR

ECC-Ref (-ECC-REF) ()

		Catalog n°	
		2-	E-ECC-STD
		3-	E-ECC-REF
		2/3-	E-ECCCOM
		2/3-	E-ECCDEM
		5- (0.10)	E-ECCMREF

VSP, MPG2 VMP3,

5-

ECC-Std-kit,	E-ECC-STD	E-ECC-REF	E-ECCSTD-K
ECC-Ref-kit,	E-ECC-REF	E-ECC-STD	E-ECCREF-K
2/3-			E-ECCAQU
ECC-press-DL	E-ECC-STD	E-ECC-REF	E-ECCP-DL
ECC-press-Aqu	E-ECC-REF	E-ECC-STD	E-ECCP-AQ
ECC-press-Air	E-ECC-STD	E-ECC-REF	E-ECCP-A
ECC-press	E-ECC-REF	E-ECC-STD	E-ECCP
(DB9) ECC-press		Bio-Logic	E-C-Press
ECC-AIR ()			E-ECCAIR
ECC-AIR			E-ECCAIR-N
ECC-AIR-kit			E-ECCAIR-K
ECC-Opto Std "			E-ECCOPT-S
ECC SBS "			E-ECC-SBS
ECC-Opto Aqu-kit			E-ECCOPT-4
lid (ECC-Opto) XRD, 6			E-ECCOPT-3
lid (ECC-Opto) XRD			E-ECCOPT-2
lid (ECC-Opto) 10			E-ECCOPT-1



Catalog n°		Catalog n°		Catalog n°	
6	E-ECCLI6	11	E-ECCLI11	16	E-ECCLI16
7	E-ECCLI7	12	E-ECCLI12	17	E-ECCLI17
8	E-ECCLI8	13	E-ECCLI13	18	E-ECCLI18
9	E-ECCLI9	14	E-ECCLI14	19	E-ECCLI19
10	E-ECCLI10	15	E-ECCLI15	20	E-ECCLI20

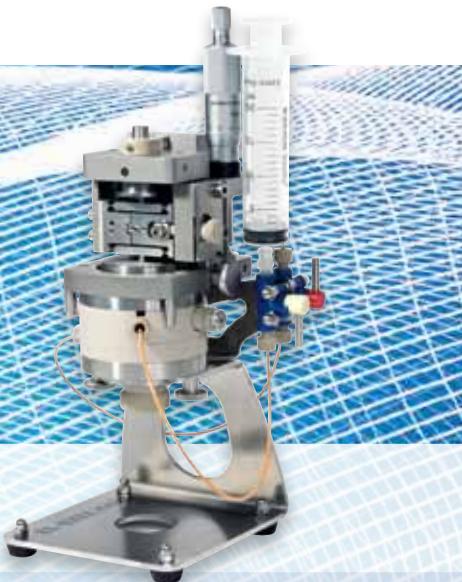


Catalog n°	
ECC CellLoad	E-ECLOAD

Options

REF -	E-ECC-104
REF-	E-ECC-103
	E-ECC-102

Catalog n°	
REF- (Li REF)	E-ECLOADR



Catalog n°

ECD-nano-DL ()

E-ECD-N

ECD-2-DL ()

E-ECD-2DL

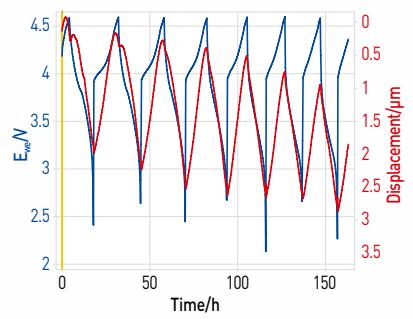
Bio-Logic (DB9)

ECD-nano-DL

E-C-N

Bio-Logic (DB9)

ECD-2-DL

E-C-2DL**ECD-nano-DL****ECD-2-DL**

LVDT

250

< 0.1% of full range

≤ 5

≤ 50

≥ 10

≥ 10

≤ 20 /

≤ 100 /

1.0 ()

0.3 1.0 ()

≤ 3 (2)

-20 70 °C

-2 -3- (),

-10 10

230 x 100 x 110

2.5



Catalog n°

5

ECC-Stand

()

E-ECCSTAND**E-ECS-R**



MPG-2xx

5

Catalog n°

092-85/1

092-85/2

VMP3,
HCP CLB

5
600 x 710 x 1850
[x x] 495 x 450 x 257
495 x 450 x 295
10 - 40° C

- 4-
- 4 A

(18 650 26 650),



Catalog n°

BH-1, (x x) 134 x 79 x 185

092-22/10

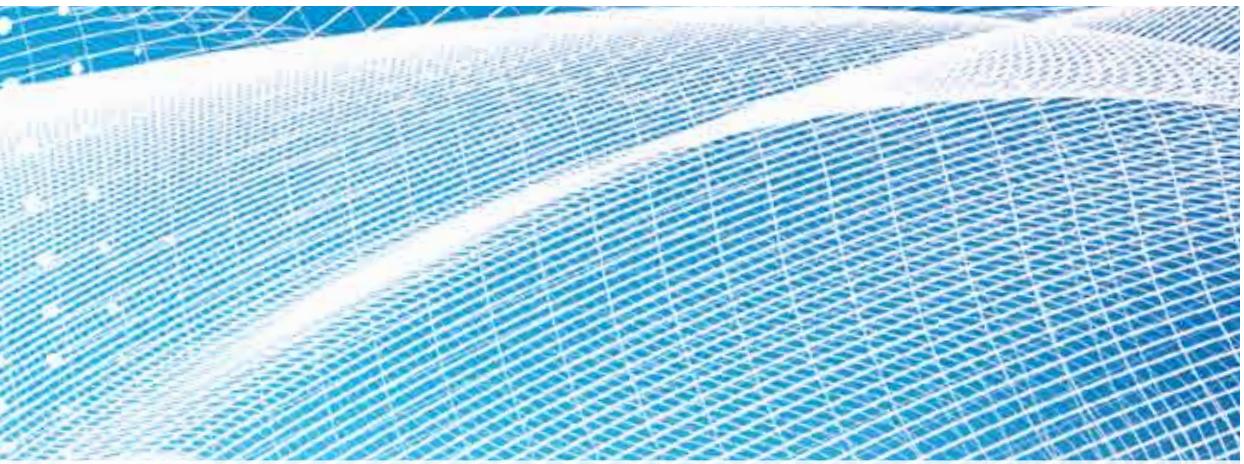


4

Catalog n°

CCH, (x x) 82 x 83 x 65

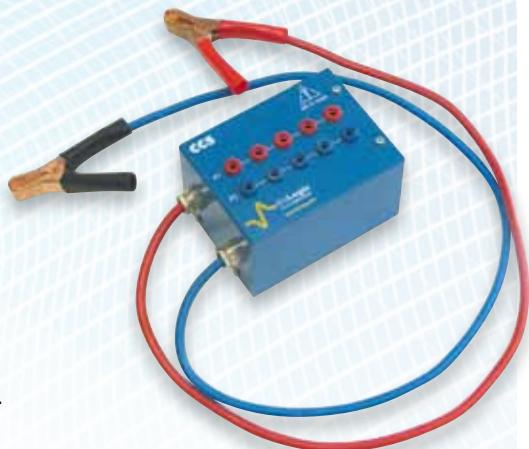
092-22/14



(CC5)

CC5 (5) .
600

DB 15



CC5	5	Catalog n°
VSP-300/VMP300		094-201/1

(SAM-50)

5
50
10-

Catalog n°
092-26



Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Connection accessories



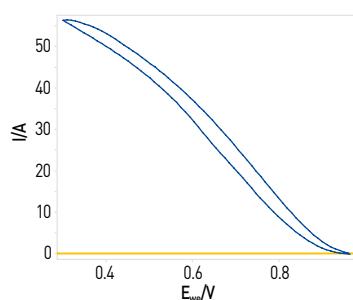
(MEA)

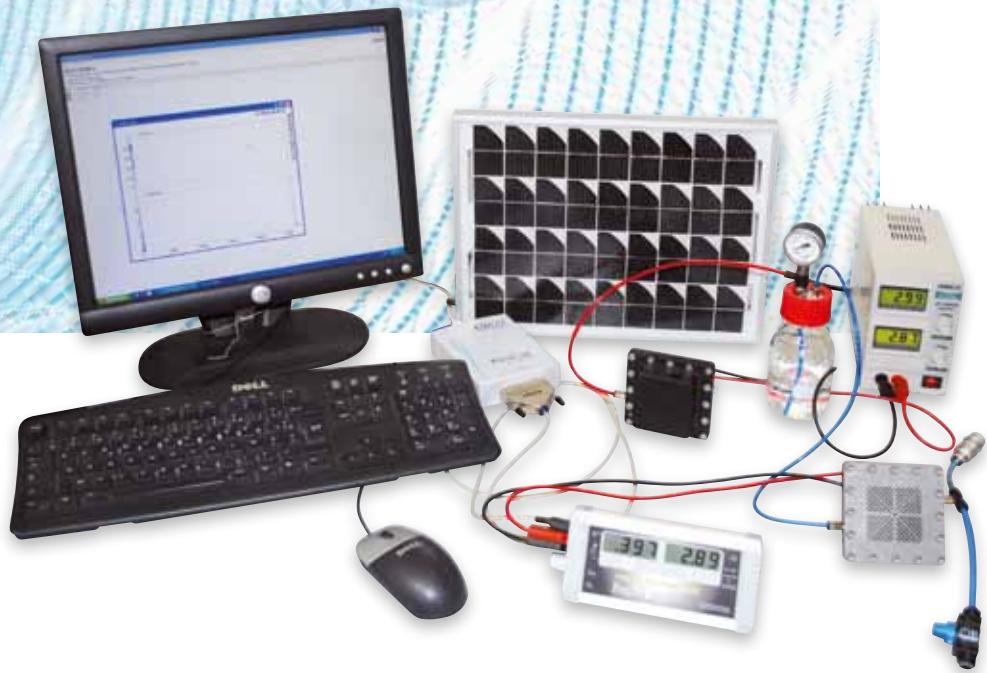
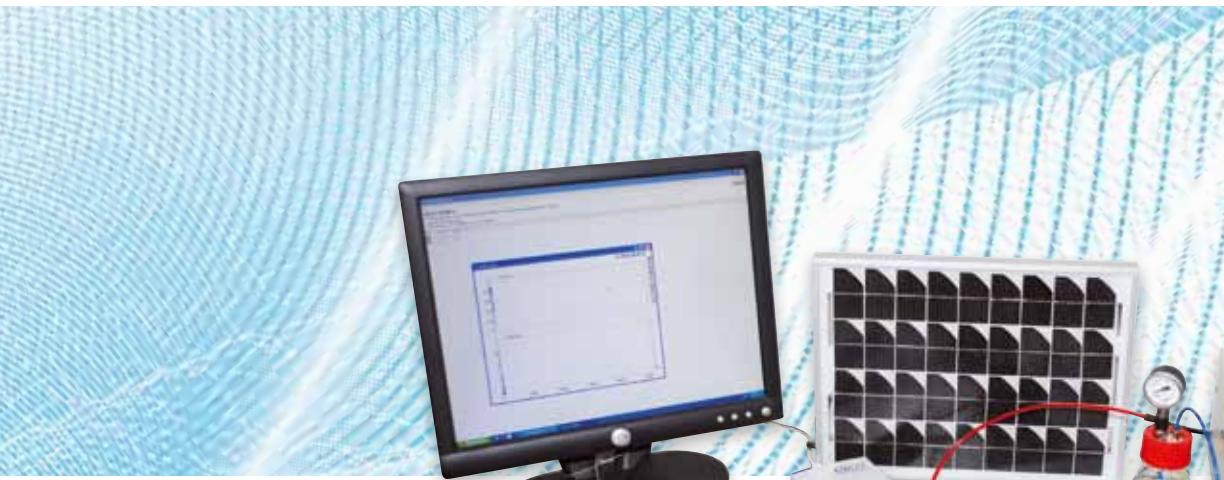
MEA
 50 , 0,5 /
 $(\pm 0,05)$, 70% Pt / C.- 3 MEA
 [CCM]:
 . - 5 MEA CMM
 (GDL)
 . - 7 MEA
 5- MEA]
 . A . 5
 7- MEA.

(MEA)		Catalog n°
5	2	095-08/1
16	2	095-08/2
25	cm ²	095-07
50	2	095-08
100	2	095-08/3
5	cm ²	095-09/13
5		095-09/14
7		095-09/15
16	cm ²	095-09/16
5		095-09/17
7		095-09/18
25	cm ²	095-09/1
5		095-09/2
7		095-09/3
50	cm ²	095-09/4
5		095-09/5
7		095-09/6
100	cm ²	095-09/7
5		095-09/8
7		095-09/9
225	cm ²	095-09/10
5		095-09/11
7		095-09/12

MEA

7- MEA . 3- MEA 5- MEA





Catalog n°			
{	110	.	095-20/A
/	220	.	095-20/B

PEM	PEM#1: 25 cm ² (MEA S25-7L N50-Pt/C 70%),	095-20/1
{	PEM#2: 25 cm ² (MEA S25-7L N125-Pt/C 70%),	095-20/2
/	PEM#3: 25 cm ² (MEA S25-7L N212-Pt/C 40%),	095-20/3
220	(	095-20/4
110	220	095-20/5
220	)	095-20/7
110	110	095-20/9
25	(	095-20/6
2	MEA)	095-20/8

- 1

7- MEA. C

[25 2],

- 1

[25 2].

MEA.

Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro- electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell
Connection accessories



1,5 .
800 VMP3.

					Catalog n°
SP-50, SP-150, BiStat, VSP, VMP3, MPG2					092-23/5
12 -	«Jaeger»				
(			: 27):	
-	2-		12-	«Jaeger»	
-	(	1),		
-	DB-25		12-	«Jaeger»	(1,5),
SP-200, SP-240, SP-300, VSP-300, VMP-300					094-101/6
25 -	«Jaeger»				
(			: 45):	
-		25-			(1)
-	DB-25	25-			(1,5)
-			,		;

[...].

		Catalog n°
	3	092-33/5
	5	092-33/6
SP-50, SP-150, VSP, VMP3, MPG2		092-23/2
	2.5	092-23/2
	3	092-23/7
	5	092-23/3
	10	092-23/4
2 A, 4 A, 5 A		092-33/11
	2.5	092-33/11
	3	092-33/12
	5	092-33/13
8 A, 10 A, 20 A		092-33/21
	2.5	092-33/21
	3	092-33/22
	5	092-33/23



Analytical cell

Corrosion cell

Glassware

Electrodes

Rotating electrodes

Spectro-electrochemistry

Quartz crystal analyzer

Battery accessories

Fuel cell

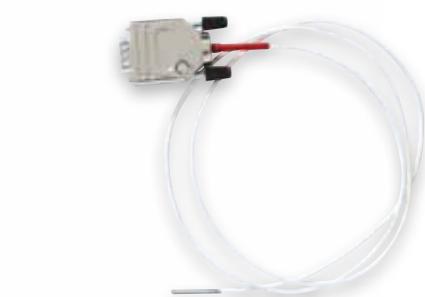
Connection accessories

Catalog n°			
Nstat box (VSP, VMP3)	4	1.5	092-16
	8	1.5	092-22/3
	8	1.5	092-22/4
Bipot (VSP, BiStat, VMP3)	2	1.5	092-22/12
	2	3	092-22/12A
	2	4	092-22/12B

Nstat Box (VMP3) VSP) **092-16/1**



Подкл. внешних устройств	Catalog n°
DB9-8 BNC коннектор для дополн. I/O	092-22/1
PT100 температурный зонд, для подключения дополн. I/O, диапазон темп: -50 °C до 250 °C, размеры: 3 x 20 мм, длина кабеля: 2.5 м	092-22/13
IS1 изол. модуль для дополн. I/O для SP300 инструментов	094-081/5





			Catalog n°
2			092-22/6
3	3	:	092-22/7

DC2

A plain, light-colored rectangular panel, likely a door or panel, with a small black oval hole near the bottom right corner.

0 - 50 °C
100 -240 , 50/60
1 A
<34 .
IEEE-488, RS-232C
3.8

Коннекторы		Catalog n°				
		Черный цвет	красный цвет	Синий цвет	Белый цвет	Желтый цвет
Alligator clip with 2 mm connector (pack of 10)		092-1001/1	092-1001/2	092-1001/26	092-1001/22	
Alligator clip 4 mm (pack of 5)		092-1001/13	092-1001/14	092-1001/23		
Socket 2 mm female (pack of 10)		092-1001/5	092-1001/6	092-1001/7	092-1001/8	
Socket 4 mm female (pack of 10)		092-1001/25	092-1001/4	092-1001/3		
Banana plug 2 mm (pack of 10)		092-1001/9	092-1001/10	092-1001/11	092-1001/12	
Banana plug 4 mm (pack of 5)			092-1001/16	092-1001/15	092-1001/24	092-1001/17
Banana adapter 2 mm female socket to 4 mm male plug (pack of 5)		092-1001/18	092-1001/19	092-1001/20	092-1001/21	
Adapter for banana 2 mm female socket to 4 mm male plug (pack of 5)		092-1001/27				
Banana adapter 4 mm female socket to 2 mm male plug (pack of 5)		092-1001/28				

Connection kit	
For standard board	- 4 alligator clips of 2 mm: - 3 sockets of 2 mm:
	blue, white, red, black, blue, white, red
For booster board	- 3 alligator clips of 2 mm: - 2 alligator clips of 4 mm: - 3 sockets of 2 mm: - 2 sockets of 4 mm:
	blue, white, red red, black blue, white, red blue, white

Catalog n°	
SP-200	094-082
SP-240/SP-300	094-091





Bio-Logic SAS
1, rue de l'Europe - 38640 Claix France
Phone: +33 476 98 68 31 Fax: +33 476 98 69 09

" " :
" " , 220089
" " , 54,
4 , .26
. / : +375 17 257 33 15
. / : +375 29 626 19 06

E-mail: info@ilpa-tech.ru
www.ilpa-tech.ru

