

CERTIFICATE OF AUTHORIZATION NR. 3526



This is to certify that ⁽¹⁾ ⁽²⁾ ⁽³⁾

Pro-Plan Ingenieurgesellschaft in Ludwigshafen in Germany

is hereby authorized¹ to act as

Manufacturer

in accordance with the applicable rules of

10CFR50 Appendix B

This authorization is granted on the basis of their Quality Assurance Manual reference Keipp SGU/QM Handbuch rev. O dated February 23rd, 2015 which scope and implementation have been reviewed, conditionally accepted by Tractebel on June 01st & 02nd, 2016 (see audit report nr. 16/022 ref. CNT-KCD/4FR/23783/000/00 and Type-Test audit report ref. CNT-KCD/4FR/23783/001/00) and finally accepted on March 30th, 2018 (see audit report nr. 16/022 ref. CNT-KCD/4FR/23783/000/01)

for the design, procurement, manufacturing, examination, testing, handling, packaging, storage, shipping of

Mosaic modules (Cf. appendix 01) and analog indicators (Cf. appendix 02)

at the above location only, from March 30th, 2018 until June 01st, 2019.

François LEFEBVRE
Group Manager
Nuclear Department

Olivier MEESEN
QHSE & Knowledge
Department Manager
Nuclear Department



AM-81-E | AUTHORI/4AC/3526 | CQR: 16022 | RSQ: 635.00 & 636.00

(1) This authorization does not relieve its holder from his contractual obligations towards the Owner. By this authorization, Tractebel does not "approve", "certify", "rate", or "endorse" any product or construction.
(2) In case of any change to the scope, performance address, company name, or any change in company organization or shareholding; the authorization document is deemed to be obsolete and will need renewal.
(3) Acting for the benefit of Electrabel

Annexe 1 - QPL : RSQ 635.00

Modules ProPlan qualifiés

Rev.	Type ProPlan	Description	Module de référence pour la qualification par analyse	Fiche technique H&B *		
				N° FOLIO	N°PKD	Type H&B
-	KBS4824F-03-416-B22AB22A-000	8 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)		n° à déterminer	93141-0-2601100-442
02	KBS4824S-03-444-xBx-AxxxB-004	1 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	102	708.533	
04	KBS4824S-03-434-KxK-AxxxB-102	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	103	708.534	
-	KBS4824S-03-43x-KxK-BBxAA-002	2 PB + 4 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	104	708.535	
04	KBS4824S-03-434-KKK-CxCxC-003	3 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	105	708.536	
04	KBS4824S-03-451-BxB-BxCxA-108	2 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	106	708.575	93113-0-2631322-501-516-534-555
04	KBS4824S-03-451-BxB-BxxxA-108	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	107	708.576	93113-0-2621322-501-516-555
02	KBS4848-03-46-01-005-025-002	10-Rotation Poti 5kOhm	KBS- 01.79.99.002.011; KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 03.43.44.020.000 (prog 1)	108	708.567	93131-0-9011100
-	KBS4824F-03-419-CC-000	2 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	109	506.902	
-	KBS4824S-03-451-xBx-xxxxx-007	1 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	110	708.415	93111-0-1901321-400
-	KBS8360-001-012-000	Plug 16pol without cable	Connecteur installé sur plusieurs modules du prog 1	111	708.431	93190-4-0092914
02	KBS4848-03-40-44-133-001	PB spring return with Flap red	KBS- 03.40.22.002.999 (prog 1)	112	708.435	93166-0-9581172
-	KBS4824S-03-451-xBx-2xxx2-007	1 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	124	708.485	93111-0-1521321-421
-	KBS4824S-03-451-BBB-Bx5xA-009	3 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	125	708.486	93111-0-3531321-432
02	KBS4848-03-40-08-949-002	PB spring return with Flap grey	KBS- 03.40.22.002.999 (prog 1)	126	708.491	93166-0-9501282-302
-	KBS4824-03-40-06-033-000	PB red	KBS- 03.40.22.002.999 (prog 1)	127	708.510	93165-0-6031171
02	KBS4848-03-45-8x-043-023	Rot. Switch 4Pos - 3Pol	KBS- 01.79.99.002.011; KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 03.40.22.002.999 (prog 1)	128	708.511	
02	KBS4848-03-48-44-932-001	PB with Flap grey	KBS- 01.48.33.123.000 et KBS- 03.40.22.002.999 (prog 1)	129	708.512	
-	KBS4824-03-40-04-032-000	PB grey	KBS- 03.40.22.002.999 (prog 1)	130	708.513	
04	KBS4824T-03-40-44-039-002	PB green	KBS- 03.40.22.002.999 (prog 1)	131	708.514	93162-0-6751171
-	KBS4824S-03-434-xxx-BxFxA-000	3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	132	708.515	
-	KBS4824S-03-464-x2x-BxFxA-003	1 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	133	708.516	
-	KBS4824S-03-464-KxK-BxxxA-011	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	134	708.517	

Modules ProPlan qualifiés

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				N° FOLIO	N°PKD	Type H&B
02	KBS4824S-03-461-xKx-BxxCA-010	1 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	135	708.518	
04	KBS4824S-03-461-KKK-BxFxA-012	3 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	136	708.519	
04	KBS4824S-03-461-xKx-BxxxA-010	1 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	137	708.520	
-	KBS4824S-03-464-xKx-xxxxx-010	1 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	138	708.521	
-	KBS4824S-03-464-KxK-xxxxx-011	2 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	139	708.522	
04	KBS4824S-03-461-xKx-xxFxx-010	1 PB + 1 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	140	708.523	
04	KBS4824T-03-45-xx-099-022	Rot. Switch 2Pos/2Pol	KBS- 01.79.99.002.011; KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 03.40.22.002.999 (prog 1)	141	708.524	
04	KBS4824T-03-45-xx-099-032	Rot. Switch 3Pos/2Pol	KBS- 01.79.99.002.011; KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 03.40.22.002.999 (prog 1)	142	708.525	
04	KBS4848T-03-45-xx-099-062	Rot. Switch 6Pos/2Pol	KBS- 01.79.99.002.011; KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 03.40.22.002.999 (prog 1)	143	708.526	
-	KBS4824F-03-411-C-000	1 Window yellow	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	144	708.527	
-	KBS4824F-03-419-CC-000	2 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	145	708.528	
04	KBS4824F-03-414-CxxC-CxxC-CxxC-000	3 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	146	708.529	
-	KBS4824H-03-410-BABA-244	4 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	147	708.530	
-	KBS4824H-03-410-AA-000-999	2 LED special	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	148	708.531	
-	KBS4824S-03-461-KxK-BxxxA-002	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	149	708.532	
02	KBS4848-03-40-44-133-001	PB with Flap	KBS- 03.40.22.002.999 et KBS- 01.48.33.123.000 (prog 1)	150	708.539	
-	KBS4824F-03-414-222-000	3 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	151	708.562	only with LED available
-	KBS4824S-03-434-xKx-xxxxx-001	1 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	152	708.564	
04	KBS4824S-03-4x1-xxx-BxxxA-000	2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	153	708.565	
-	KBS4824S-03-461-KxK-BxFxA-011	2 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	154	708.566	
-	KBS4824S-03-461-KKK-xxxxx-012	3 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	155	708.568	

Modules ProPlan qualifiés

Rev.	Type ProPlan	Description	Module de référence pour la qualification par analyse	Fiche technique H&B *		
				N° FOLIO	N°PKD	Type H&B
04	KBS4824F-03-419-CxxC-xxxx-CxxC-000	2 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	156	708.569	
-	KBS4824F-03-411-C-999	1 Window yellow	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	157	708.570	
-	KBS4824S-03-431-KxK-BxxxA-099	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	158	708.571	
04	KBS4824S-03-431-BxB-2xxx2-102	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	159	708.572	Diodes separat in Cableplug
-	KBS4824S-03-451-BxB-xxxx-008	2 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	160	708.573	
-	KBS4824S-03-461-KxK-xBFAx-011	2 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	166	709.832	93111-0-2561411-456
-	KBS4824S-03-441-xBx-x2x2x-004	1 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	167	709.833	93111-0-1151021-451-303
-	KBS4824F-03-413-BBAA-000	4 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	168	709.834	93141-0-1401200-442
-	KBS4824S-03-451-xBx-BB5AA-007	1 PB + 5 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	169	709.835	93111-0-1551321-452
-	KBS4824S-03-461-BBB-BB2AA-012	3 PB + 5 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	170	709.836	93111-0-3551321-452
-	KBS4824-03-40-04-034-000	PB yellow	KBS- 03.40.22.002.999 (prog 1)	171	709.837	93162-0-6741281
04	KBS4824S-03-451-xBx-BxFxA-007	1 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	173	709.839	93111-0-1531321-432
04	KBS4824S-03-451-BxB-BxFxA-108	2 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	174	708.399	93113-0-2538322-321-501-516-534-555
04	KBS4824F-03-411-2222-xxxx-2222-000	1 Window white	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	175	708.403	93141-0-1101200-441
-	KBS4824F-03-417-????????????-000	12 Windows (? = LED color)	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	176	708.404	93141-0-2701000-488-303
04	KBS4824F-03-416-B22A-xxxx-B22A-000	8 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	177	708.405	93141-0-2601000-462
04	KBS4824S-03-451-BxB-xxFxx-108	2 PB + 1 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	178	708.406	
-	KBS4824S-03-451-xBx-x????x-007	1 PB + 3 LED (? = LED color)	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	180	708.410	93111-0-1561321-452
-	KBS4824S-03-451-xBx-x????x-007	1 PB + 3 LED (? = LED color)	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	181	708.411	93111-0-1561321-452
-	KBS4824S-03-451-BxB-BxxxA-008	2 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	182	708.412	93111-0-2521321-422
-	KBS4824S-03-451-xKx-xx5xx-007	1 PB + 1 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	183	708.414	93111-0-1511311-411
-	KBS4824S-03-451-BBB-xxxx-009	3 PB	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	184	708.416	93111-0-3901321-400
-	KBS4824-03-40-44-035-000	PB green	KBS- 03.40.22.002.999 (prog 1)	185	708.418	93162-0-6751171
04	KBS4824T-03-40-04-039-999	PB yellow	KBS- 03.40.22.002.999 (prog 1)	186	708.419	93162-0-6741171
02	KBS4824-03-40-44-039-000	PB green	KBS- 03.40.22.002.999 (prog 1)	187	708.420	93162-0-6751171

Modules ProPlan qualifiés

Rev.	Type ProPlan	Description	Module de référence pour la qualification par analyse	Fiche technique H&B *		
				N° FOLIO	N°PKD	Type H&B
04	KBS4848M-03-89-61-21-062	Rot. Switch 6Pos/2Pol handle grey	KBS- 01.79.99.002.011; KBS- 03.40.22.002.999 KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 01.48.33.123.000 (prog 1)	188	708.421	93121-0-8201100
02	KBS4824-03-45-22-032-001	Rot. Switch 2Pos/2pol	KBS- 01.79.99.002.011; KBS- 01.89.99.002.012; KBS- 01.89.99.002.013 et KBS- 03.40.22.002.999 (prog 1)	189	708.423	93162-0-1761151
-	KBS4824S-03-451-BxB-AxDxA-008	2 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	190	708.427	93111-0-2531321-432
-	KBS4824S-03-431-KxK-BxDxA-002	2 PB + 3 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	191	708.430	93111-0-2531111-432
-	KBS4824S-03-451-xBx-BxxxA-007	1 PB + 2 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	193	708.439	93111-0-1521321-422
04	KBS4824F-03-419-2xx2-xxxx-2xx2-000	2 Windows	KBS4824F- 03.417.2222.2222.2222.000 (prog 1)	197	708.488	93141-0-1201200
-	KBS4824S-03-464-KxK-xxFxx-011	2 PB + 1 LED	KBS4824S- 03.401.BBB.22ABB.009 (prog 1)	198	708.574	
-	1001009100	Tile 72x72mm	NA	101	708.478	93152-0-0601100
-	1001009101	Latching bracket	NA	161	709.777	93104-4-0379502
-	1001009104	Front cover for module 48 x 24 mm	NA	164	709.797	93104-4-0388519
-	1001009102	Holder for module 48 x 24 mm	NA	194	708.460	93104-4-0374300
-	1001009103	Holder for module 48 x 48 mm	NA	196	708.462	93104-4-0374301
-	1001009105	Cover pane for module 48 x 24 mm	NA	199	709.802	93104-4-0374184
-	KBS4848T-03-40-14-113-000	1 PB (4 NO + 1 NC)	NA	-	-	-

* A titre informatif, les numéros des folios repris ici correspondent aux équipements H&B.

Annexe 1 - QPL : RSQ 635.00

#	Equipment	type of mounting	Manufacturer/ Supplier	OrderNo/ IdentNo
Alarm Module Type 3A				
10	Pro-Plan Series 100, 48x24 mm, adapter for 15 mm front level, H&B 15-pin	H&B mosaic system	Pro-Plan	100138A, 100139A, 100140A
11	Blind plate, 48x24 mm, adapter for 15 mm front level	H&B mosaic system	Pro-Plan	100141A
Alarm Module Type 4, Type 5				
12	Pro-Plan Series 100, 48x24 mm, D-SUB 15	PKM 248	Pro-Plan	100142A, 100143A, 100144A
13	Mosaic system PKM248, 31 x 8 tiles (24x24), (792 mm x 240 mm)	steel sheet	Pro-Plan	PKM248, 31 x 8 tiles (24x24)
14	Series 100 load dummy for Mosaic system PKM248	PKM 248	Pro-Plan	Series 100 load dummy
15	Feed-through terminal block	C-Profile 30x15	Pro-Plan	Phoenix UK 5 N - 3004362
16	Multi-level terminal block	C-Profile 30x15	Pro-Plan	Phoenix UT 2.5 3L - 3214259
Alarm Module Type 6				
17	Pro-Plan holder for rack 48x24	steel sheet	Pro-Plan	05 004
18	Pro-Plan holder for rack 48x48	steel sheet	Pro-Plan	05 005
19	Control unit load dummy for load Pro-Plan holder for rack 48x48	steel sheet	Pro-Plan	Control unit load dummy
20	Signal unit load dummy for Pro-Plan holder for rack 48x48	steel sheet	Pro-Plan	Signal unit load dummy
Alarm Module Type 7				
21	Signal unit	H&B mosaic system	Pro-Plan	100105A
22	Control unit	H&B mosaic system	Pro-Plan	300081A

Annexe 2 - QPL: RSQ 636.00

Pos	Qualified representative Family	Option						Qualified fastener (Steel-Sheet)	Fastener for H&B Grid	Enveloped Article 72mm	Fastener for H&B Grid	Enveloped Article 48mm	Fastener for H&B Grid
		LN55 (1)	LN56 (2)	LB1 (3)	BC2 (4)	Fut	Classe						
A1	V-PQ 96-250 -1..0..1mA DC	X		X	X	Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..1mA DC	Fastener screw clip S	V-PQ 48-250 0..1mA DC	Fastener screw clip S
A2	V-PQ 96-250 0..25mA DC	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..25mA DC	Fastener screw clip S	V-PQ 48-250 0..25mA DC	Fastener screw clip S
A3	V-PQ 96-250 0..10A DC	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..10A DC	Fastener screw clip S	V-PQ 48-250 0..10A DC	Fastener screw clip S
A4	V-PQ 96-250 on Converter ../ 1 A AC	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 on Converter ../ 1 A AC	Fastener screw clip S	V-PQ 48-250 on Converter ../ 1 A AC	Fastener screw clip S
A5	PF 48x24 mech. supressed 4..20mA DC		X	X		Rectang	1,5	Catch spring	Catch spring	NA	NA	NA	NA
V1	V-PQ 96-250 0..1V DC	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..1V DC	Fastener screw clip S	V-PQ 48-250 0..1V DC	Fastener screw clip S
V2	V-PQ 96-250 0..500V DC	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..500V DC	Fastener screw clip S	V-PQ 48-250 0..500V DC	Fastener screw clip S
V3	V-PQ 96-250 0..500V AC	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..500V AC	Fastener screw clip S	V-PQ 48-250 0..500V AC	Fastener screw clip S
V4	PF 48x24 0..5V DC		X	X		Rectang	1,5	Catch spring	Catch spring	NA	NA	NA	NA
V5	V-PQ 96-250 0..100mV	X		X		Carré	1,5	Fastener screw clip S	Fastener screw clip S	V-PQ 72-250 0..100mV	Fastener screw clip S	V-PQ 48-250 0..100mV	Fastener screw clip S
D1	PZQS 48 WI: -10..+10V DC, II: 4..20mADC		X	X		Carré	1,5	Fastener B DIN 43 835	Fastener B DIN 43 835	NA	NA	NA	NA
D2	PZQS 48 WI: -20..+20mA DC, II: 0..10V DC		X	X		Carré	1,5	Fastener B DIN 43 835	Fastener B DIN 43 835	NA	NA	NA	NA