





COMPANY PRESENTATION

PANEL LINE FACTORY

- Has been founded early 1992, and since then it has positioned as one of the leader Panel Builder and Electrical Kiosks & Enclosure Manufacturer companies in the region.
- **Our Facility** is the only one has Certification as Qualified Panel Builder of Schneider Electric Company in North Region of Iraq.
- We are high-quality panel builder, which has been providing design and assembly of almost all types of electrical panels, for residential and industrial sectors In Iraq, for over 25 years.
- Our Valuable Experience is a result for the increased demand of the region market for new Modernized technical integrated solutions for its various industries and professional Business sectors.
- Our Company is the Only & First Panel Builder in North Region of Iraq Certified for ISO 9001:2015, Management System from:
 UNIVERSAL REGISTRARS, The certificate is for the following ranges:
 Manufacturing of Electrical Panels and Kiosks.
- We are represents reputable international companies including but not limited to: Schneider Electric, Phoenix Contact, Tempa Pano and others.
- Our FACTORY is a trading and engineering specialized in the filed of Panel Building, and Manufacturing Kiosks& Enclosures
- The Current Position of our FACTORY, is far ahead of all its competitors in Kurdistan region as a panel builder, in addition to that, it is a specialized trading company
- One of the most our Goals is helps Clients of technology do their business better by leveraging new and creative ways to add value to their business process.



Our Message

PANEL LINE FACTORY connects people, in business and industry, to real-time Technology in ways that improve business strategies and decisions.,,

Our Mission

We deliver high quality panels relying on our long experience and by using the top quality products that are sourced from our international partners

Our Vision

To be at the top among the panel builders sector in Iraq.

Our Values

- Teamwork Spirit.
- Close Customer Relationship.
- **>>** Customer Satisfaction.
- Distinctive Knowledge.
- **>>** Excellent Job Execution.
- **>>** First-class Planning.
- **>>** Continuous Development.
- Re-evaluation



PANEL LINE FACTORY team is a group of young, dynamic and highly motivated Professionals. We combine excellence with top quality, integrity and timeliness to deliver a service that is technically state-of-the-art, designed to facilitate your user experience and cutting edge in terms of content and tools.

mww.pl-kiosks.com





GLOBAL OPERATIONS

Middle East Zone

East Mediterranean Countries

Iraq Branch

From: Robah Shaban

Date: 1.Jan.19

Email: Robah.shaban@schneider-electric.com

To: Whom it may concern

Subject: Qualified Panel Builder by Schneider Electric

We, Schneider Electric East Mediterranean SAL, certify that PANEL LINE FACTORY, based in Erbil, is a Qualified Panel Builder Partner of Schneider Electric to cover Iraq market only. None exclusive as per the contract signed on 1.Jan.19 & remains valid till 31.Dec.19.

This letter was given upon the request of PANEL LINE FACTORY, without liability of Schneider Electric East Mediterranean, and remains valid until 31.Dec.2019.

Please don't hesitate to contact us for any further information or clarification.

Robah Shaban

Country Sales Manager – Partners & Industry Business

Iraq & Jordan



Schneider Electric East Mediterranean s.a.l Iraq Office 100 meter St, Ekhlas, Empire center Bldg

2nd floor, Appt #15, Erbil - Iraq www.eastmed.schneider-electric.com

SAL fully paid capital of 100,000 USD CR 1000716 Beirut-Lebanon Headquarters:

Tabaris Center 1063, 10th floor, Beirut - Lebanon





Certificate of Registration

This is to certify that the Quality Management System of



PANEL LINE FACTORY

Erbil - Makhmoor- ST Besides the Timar kavora village.



has been assessed and found to conform to the requirements of

ISO 9001:2015

For the following scope:

Manufacturing of electrical panels and kiosks.



Certificate number: 25794

This certificate is valid from 10-July-2017 until 10-July-2020 And remains valid subject to satisfactory surveillance audits On or before 09-July-2018 and 09-July-2019. Re-certification audit due on 10-July-2020. Certification expiry on 09-July-2020.

Lavia lailur.

David Wilmer Certification Manager

UNIVERSAL REGISTRARS

www.universalregistrars.com

This certificate can be verified at the above URL. The certificate remains the property of Universal Registrars, to whom it must be returned on request. Lack of fulfillment of certification terms and conditions at all times, may render this certificate invalid.





Certificate of Compliance

This is to Certify that

the technical documentation for the products of

PANEL LINE FACTORY

IRAQ/ERBIL/MAMZAWA

The Technical Document maintained by the organization has been reviewed and found to comply with the requirements of Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility (EMC) Directive - 2014/30/EU for the following Products:

1. ELECTRIC PANEL, MODEL NUMBER (EKO SERIESE)

This certificate of compliance is based on the Technical File of the above mentioned product.

Technical Report and Documentation are at the Organization's Disposal.

This is to certify that the Product is in conformity with all revision of Council Directive 2014/35/EU, 2014/30/EU referred to as Machinery. This certificate does not imply assessment of the series-production of the product and does not permit the use of AQC Middle East FZE mark of conformity.

Certificate No. : 18ICCP41

Initital Registration Date: 09/10/2018 Issuance Date: 09/10/2018

Date of Expiry * : 08/10/2021

1st Surve. Due : 09/09/2019 2nd Surve. Due :09/09/2020





AQC MIDDLE EAST FZE.

E1-1401 E Amber Gem Tower, Sheikh Khalifa Bin Zayed Road, 2, Ajman, UAE. e-mail : info@aqcworld.com,
*Validity of the Certificate is subject to successful completion of surveillance audit on or before of due date. (in case surveillance audit is not allowed to be
conducted, this certificate shall be suspended/withdrawal).

Certificate Verification: Please Re-check the validity of certificate at http://loww.aqcworld.com/activeclients.aspx or www.aqcworld.com/activeclients.aspx or www.aqcworl

Schneider PANELLINE FACTORY



Legal Translation

Kurdistan Regional Government - traq Ministry of Commerce and Industry Directorate Ceneral of Industrial Development Industrial Development Directorate / Erbil private sector factories 9/1184

om Translator

No: 1184

Date: 12/03/2013

To / Factory (PANAL LINE) For electric board manufacturing Mr. / Aziz Omar Aziz - Erbil - industrial zone Topic / (conditional) license No. 12508

With reference to your letter No. 5957 on 05.12.2012 we have granted a (conditional) license No. 12508 on 03.04.2013 for your factory, and this (conditional) license been granted under Article (6) of the Iraqi Law No. 25 of 1991 which it's private to private and mixed sectors Industrial Investment, and that will be under the name and in the above address and with a capital of (300,000,000) three hundred million Iraqi dinars. In accordance with the equipment registration certificate's no (501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514/49) on 03/05/2011issued by Erbil notary directorate in accordance with the priorities presented to us your factory required to undergo the following points

The implementation of all the information listed in the foundation license grants form

- Provide health occupational and safety conditions in the workplace /Under the relevant Parties certificate
- You must establish the factory in the industrial area in according according to municipal plans Provide the terms of the civil defense instructions in the factory place
- Review the Chamber of Commerce and Industry for the purpose of registration the factory
- Appointment of skilled workers for the purpose of work according to the quality of the product
- Bound by the terms of the quality control of the products that is produced
- You are not allowed in any way to sell or rating the factory equipment as scrap materials before three years from the date of the grant of this license, or it must be according to the Ministry's approval
- The factory should begin working in within one year from the date of receipt of the land allocated to the Factory otherwise the granted license will be Canceled

Aras Rauf Arif Industrial Development Director General 12.03.2015

Copy to

*Directorate General of Municipalities - Erbil / for the purpose of allocation of land by category - with appreciation
*Municipality Directorate of Erbil / for the purpose of allocation of land by category - with appreciation

•General Directorate of Planning and Follow-up / knowledge with appreciation
•Directorate General of Industrial Development / Technical Section kinder....

Directorate General of Industrial Development / Department control kinder
 Erbil / conservative public administration / with appreciation
 General Mderahalomn - Economic section - with appreciation

*Directorate of Erbil environment kinder (4531407) *Directorate of Labour and Social Security - Erbil ... kinder

Chamber of Commerce and Industry of Erbil kinder
 Industrial Development Directorate of Erbil / Directorate of private sector companies / with primitives / statistics kinder

Planning Directorate / Statistics

Gen. No: 10489 Number: Date: 24/05/2015

ERBIL NOTARY PUBLIC

Mrs. Aween Abdulkhaleq Ismael is a sworn translator at ministry of justice—Law the presented Heiself in front this Office under legal oath she declared that the English text is the true full and faithful translation of the Kurdish text of the above document and after she signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the text before me so to attitude to the signed on the signed of the signed on t

on 24/05/2015

Tel:07504 Yeminli Çevirmen // Sworn Translator Aween Abdulkhaleq İsmael Iraq – Erbil-Doctors way in Street –fountain statue of sheikh mahmud- Near Oscar Photographer-shazad office Irak –Erbil –doktorlar caddesi girişi-şeyh mahmud heykeli yanı-shazad bürosu.

عراق اربيل بداية شارع الإطباء مجارر مصور أوسكار مكتب شاراد

Ministry of Justice Directorate General of judic

Notary

wan Samad Ahmed

Notary Public





































































Panels

ATS Panel



ATS Panel



Capacitor Bank



... Distribution Panel















Panels

.....Distribution Panel





Panels

Distribution & Motor Control Panel





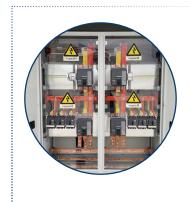


Distribution & Socket

KWH Meter Panel











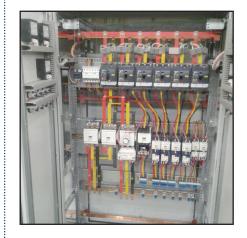
Kiosk Distribution Panel





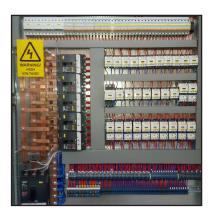
Panels

Motor Control Panel















Soft Start Panel



Synchronize & ATS Panel



Transformers Panels





Panels









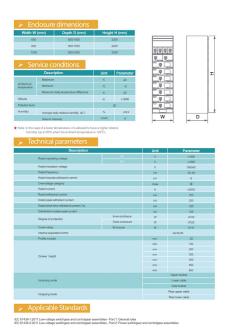








Aikko Low voltage switchgear









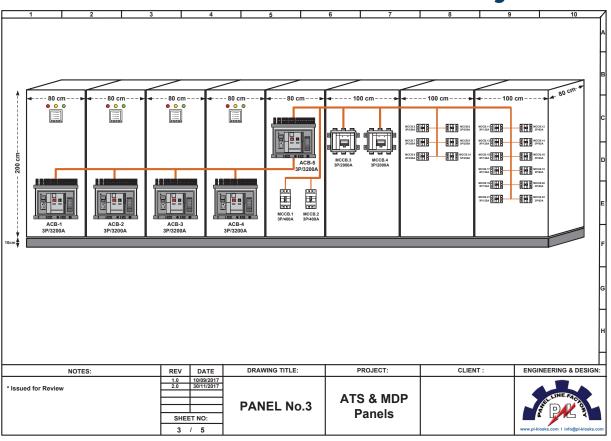
KYN28A switchgear



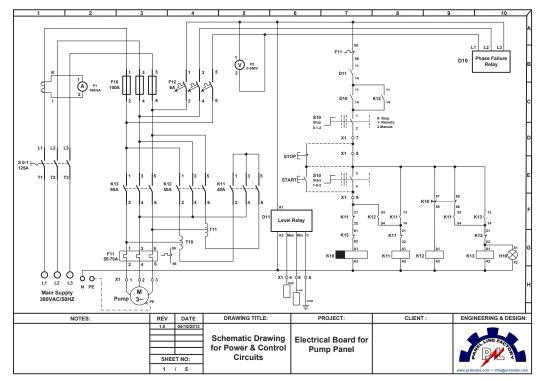




ATS & MDP-Layout Drawing



Pump Panel Drawing





Copper Bus Bar

SOLID COPPER BARS

Example of bar choice

for ln = 800 A

for Tmax = 85° C

with copper prepunched bar

 63×5 In = 951 Amp

with solid copper bar

 63×5 In = 951 Amp

 $40 \times 10 \quad In = 944 \, Amp$

with solid aluminum bar

50 x 10 ln = 874 Amp

cf. tables with

 Δ T = 50 °C

where:

Tmax = max. considered working temperature

Ta = reference room temperature $\Delta T = temperature increase in °C$

 $Tmax = 50^{\circ} + 35^{\circ} = 85^{\circ}C$

	Cross- section mm²	Kg/mt	Number of bars in parallel							
			ΔT 30°C				△T 50°C			
Dimensions										
12 x 4	48	0.43	160	292	403	451	212	387	534	598
12 x 5	60	0.53	183	334	460	514	241	440	607	679
15 x 5	75	0.67	218	405	567	635	289	537	751	841
20 x 5	100	0.89	274	500	690	772	363	663	914	1023
25 x 5	125	1.11	327	586	795	890	433	776	1053	1179
30 x 5	150	1.33	379	672	896	1003	502	890	1187	1329
32 x 5	160	1.42	400	494	931	1043	530	920	1234	1382
40 x 5	200	1.78	482	836	1090	1220	639	1108	1444	1617
50 x 5	250	2.23	583	994	1260	1411	772	1317	1670	1870
60 x 5	300	2.67	688	1150	1440	1613	912	1524	1908	2137
63 x 5	315	2.80	718	1197	1494	1673	951	1586	1980	2217
80 x 5	400	3.56	885	1450	1750	1960	1173	1921	2319	2597
100 x 5	500	4.45	1080	1730	2050	2296	1431	2292	2716	3042
125 x 5	625	5.56	1300	2022	2381	2666	1723	2679	3155	3532
20 x 10	200	1.78	427	734	959	_1151_	564	970	1269	1522
30 x 10	300	2.67	573	986	1289	1547	756	1300	1701	2041
40 x 10	400	3.56	715	1230	1609	1931	944_	1624	2124	2549
50 x 10	500	4.45	852	1510	2040	2448	1129	2001	2703	3243
60 x 10	600	5.34	985	1720	2300	2760	_1305_	2279	3048	3658
80 x 10	800	7.12	1240	2110	2790	3124	1643	2796	3697	4140
100 x 10	1000	8.90	1490	2480	3260	3651	1974	3286	4320	4838
120 x 10	1200	10.70	1740	2860	3740	4188	2306	3790	4956	5550
160 x 10	1600	14.25	2220	3590	4680	2942	4757	6201		
200 x 10	2000	17.80	2690	4310	5610	3564	5711	7433		

Ampacity table Aluminum bar based on the ΔT temperature increase as per standard DIN 43670 Reference room temperature 35°C

ip_ik_clasification

IP and IK CLASSIFICATION

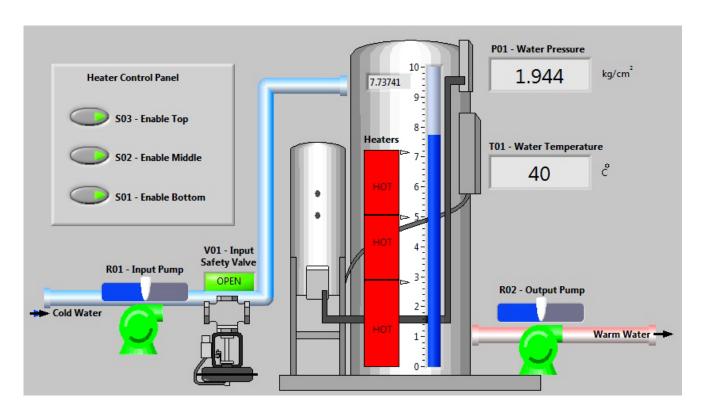
The degree of protection is given in the form of IP classification (Protection Index), in 2-digit format, according to the lower classification. Fibox has tested the boxes according to EN 60529.

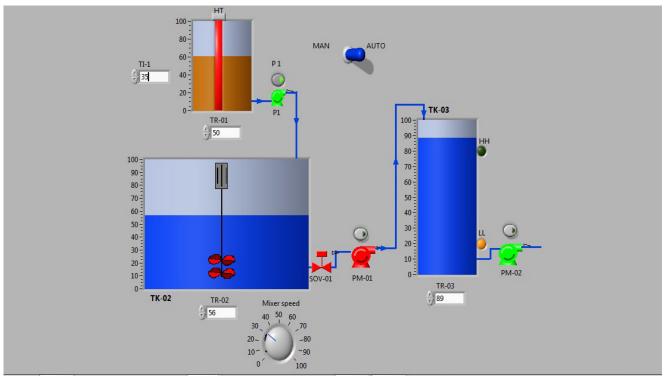
The new European standards for empty envelopes according to EN 62208 also include the IK impact test

FIRST NUMBER Protection against solid objects			SECOND NUMBER Protection against liquids				IK CODE Impact protection			
IP		TEST	IP		TEST	IK		TEST		
0		Without protection	0		Without protection	0		Without protection		
1		protected against solid objects> 50 mm. Ex. Touching with the hand	1		Protected against vertical drop of water droplets	01-05		Impact < 1 joule		
2		Protected against solid objects> 12 mm. Ex. Touch with fingers	2		Protected against sloping vertical waterfall 15°	6	200 g	Impact 1 joule		
3		Protected against solid objects> 2.5 mm. Ex. Cables, Tools	3		Protected against sloping vertical waterfall 60°	7	500 g 40 os	Impact 2 joule		
4	H	Protected against solid objects> 1 mm. Ex. Cables, Tools	4		Protected against falling water at any angle	œ	17 kg	Impact 5 joule		
5		Protected against dust	5		Protected against low pressure water jet	9	Str	Impact 10 joule		
6		Totally dustproof	6	5	Protected against high pressure water jet	10	5 kg	Impact 20 joule		
			7		against the effects of immersion between 15cm					
			8		Protected against long periods of immersion under pressure					



SCADA System









job pyramid structure





Some of Our Valuable Customers:



























معمل بنل لاين هو المصنع الأول والوحيد في الأقليم وشمال العراق المعتمد من شركة شنايدر الكتريك العالمية لتصميم وبناء اللوحات الكهربائية