



INDUSTRIAL AUTOMATION SYSTEM

WORLD SOLUTION COMPANY LIGHT SOLUTION LEADER

Adic Provides Perfect Light Control Systems



WE ARE DOING OUR BEST TO SATISFY CUSTOMERS THROUGH PROVIDING THE OPTIMUM CONTROL SYSTEM TO BECOME A TECHNICAL LEADER IN THE **FIELD OF INDUSTRY AUTOMATION**

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Adic Co., Ltd. Is the R&D based company which develops devices about AGV (Autonomous Guided Vehicle) and LonWorks(ANSI/EIA 709.1 – the standard of open Control network) mainly.

Adic Co., Ltd. was established in 2000 and we have pursued R&D.

Specially, our LonWorks based power line communication device design technology (that achieved CE for the first time in Domestic & Europe), is applied in HA, BA, FA and TA.

We promotes element technology and quality of products based on our own Technology.









HISTORY



2000's

Establishment of ADIC Corporation. Selected as New Technology Business Provider of TBI Business by the Ministry of Commerce, Industry and Energy. (No.2000-147)

Registration as Venture Company. (No.200012-686)

2001's

Joined LonMark Partnership of International Certification Organization of LonWorks.

Selected as Technology Transfer Company by the Small and Medium Business Administration-Development of Industrial Real Time Internet Web Server.

2002's

Acknowledgement of Affiliated Lab (No.20021576) : Korea Industrial Technology Association.

2003's

CE MARK Certification of Power Line Communication Module (APL) for the First Time in Korea/Europe.

ISO 9001 & KSA 9001: 2000 Certification.

2005's

ECHELON LID (LonWorks INDEPENDENT DEVELOPER) Certification.

Relocation to New Office Building. (654-12, Bansong-ri, Eonyang-eup, Ulju-Koon, Ulsan)

Selected as INNO-BIZ Company by Small and Medium Business Administration. (No.5021-0464) ADIC Factory Registration.

2006's

Partner Company Registration in KEPCO KDN. (Area: Automation Machinery, Other Service)

Selected as Promising Export Firm (No. 06-51): Busan / Ulsan Export Support Center.

Confirmation of Software Company by Korea Software Industry Association.

2007's Selected as Global Star Venture Company (No. 2007-3): Ulsan City.

2008's

Establishment of Seoul / Kyonggi Branch of ADIC Corporation.

Selected as Promising Export Company (No. 08Busan.Ulsan-129) : Busan / Ulsan Export Center.

2009's

Acquisition of Information Communication Business License. (No.520017) : Ulsan City. New Opening of Seoul/Kyonggi Branch Office of ADIC Corporation.

2010's

Achieved mechanical works license issued from Ulsan city. (Ulsan Ulju 2010-10-20)

Selected as 2010 global star venture business.

2011's

AUTO MATION

ballast)

2012's

Received Knowledge Economy Minister prize for contributing district software industry

improvement. (No. 12560) 2013's

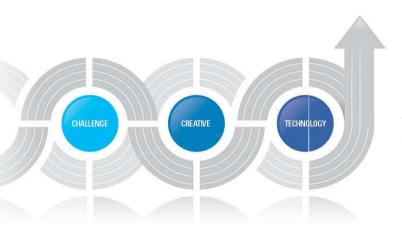
Designated as Ulsan global IP star business. Designated from Small & Medium Business Corporation as a core company for good workplace. (No. 2013-116) Certified as a 2013 shipbuilding & marine IT-

combined renovation company.

2014's

Registered as strategic partner for Hanwha SAC

Designated as export prospective company. (No. 14BUsan-Ulsan-105)



World Solution Company **Control System Leader**



Green Materials. (Energy saving electronic HID

2015's

Designated again as small hidden champion from Employment and Labor Ministry.

Signed MOU with Ulsan Creative Economy Center

Registered as cooperative company for Hyosung Group.

Registered Seoul branch office as a factory

BUSINESS AREA

Industrial Automation Provides Solutions to the core of Control System Leaders

EMS (Energy Management System)

Street light control system

LED street light control system.

It controls through power line communication, LED lights (street lights, security lights and tunnel lights) using the CMS and OLC(outdoor lighting controller). The system has capability of dimming control, status monitoring and electrical data measuring

HID street light control system.

It controls through power line communication, HID street lights using our CMS (central management software), electronic smart ballast, line controller. Especially, the electronic smart ballast, an innovative product, provides significant energy saving through power factor correction circuit, dimming control function, LonWorks PLC circuit. etc.

Demand control system

It is an automatic energy control system that reduces power rates and energy consumption through power peak control, and is a maximum power demand control system not to exceed contracted power or the target power use. (An effective system that controls major target loads such as lighting, air conditioning, through direct control by distributed control system based on LonWorks)

Intelligent Building System

We have developed and manufactured LonWorks platform control devices and systems for building automation which manage the equipment and facility efficiently since our foundation. It supplies the comfortable environment and energy saving for building users. We are offering a wide range of solution from device development to design, system installation and commissioning and maintenance for IBS.

INDUSTRIAL AUTOMATION SYSTEM

Robot Control System

AWS (Automatic Welding Solution)

It is a robot control system for auto welding applied to the construction of oil carrying pipe lines, and it is adopted and operated in many construction sites in the world since it reduces work fatigability in manpower and makes working period shorter, and improves welding quality

AGV (Autonomous Guided Vehicle System)

It is a key control system to harbor automation to improve distribution system according to the increase of harbor traffic, and it has various functions such as location recognition of autonomous guided vehicle, optimal path planning, running, collision avoidance, and it can be applied in many industries.

ROV (Remote Operation Valve System)

It is a system to operate balancing valves installed at the bottom of a ship in the deck remotely and it provides efficient and economic effects in construction and maintenance since it consists of LonWorks PLC c

devices for users. u-Safety

Safety System

Crane Collision Avoidance System

Crane collision avoidance system is to prevent crane of accident between the cranes which can occur in shipbui construction industry. The system consists of precis wire-wireless network integrated control system and

Disaster prevention management system is to prevent industrial disasters in advance by collecting and analyzing the factors causing disasters such as fire, explosion, suffocation and fall which can occur in general industries of shipbuilding, chemistry, construction and other industries through wire-wireless sensor network and integrated control system.

LED Street Light Luminaires

Features

- Uses suitable lens for streetlight.
- Enhances light dispersion and distribution by improving light straightness.
- Easy installation due to the same width as existing sodium luminaires.
- Applies aerodynamic design.
- Improves heat dissipation using individual heat sink.
- Saves energy by applying high efficiency power LED.
- Eco-friendly product applying LED light source.
- Guaranties 50,000 hours of life time due to perfect heat dissipation.
- Designed to meet IP65.

Distribution Profile





Specifications

Model	ASL-150L	ASL-120L	ASL-100L	ASL-75L, ASC-75L	ASC-40L
Power	150W	120W	100 W	75 W	40 W
Luminous Efficiency	>110 lm / W	>110 lm / W	>110 lm / W	>110 lm / W	>120 lm / W
Luminous Flux	>15,000 lm	>12,000 lm	>10,000 lm	>7,500 lm	>4,200 lm
Color Temperature	5700 K				
Color Rendering	>75				
IP		65			
Life Time	50,000 hrs				
Dimension	928 x 326 x 167(mm) 780 x 275 x 155(mm) 507 x 238 x 108(m		507 x 238 x 108(mm)		

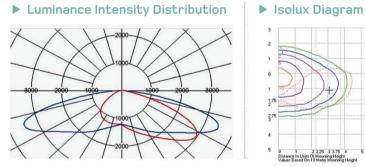


LED Tunnel Light Luminaires

Features

- Designed for tunnels, underground passes, etc.
- Easy maintenance. (Separate spaces for the LED Modules and SMPS / OLC)
- Improves heat dissipation with individual LED module heat sink.
- Energy saving by applying high efficiency power LED.
- Eco-friendly product applying LED light source.
- Guaranties 50,000 hours of life time due to perfect heat dissipation.
- Designed to meet IP65.
- Built-in LED protection filter.

Distribution Profile & Simulation



Specifications

			ATL-100L	ATL-75L
200 W	150W	125W	100W	75 W
>110 lm / W	>110 lm / W	>110 lm / W	>110 lm / W	>110 lm / W
>22,000 lm	>15,000 lm	>12,000 lm	>10,000 lm	>7,500 lm
5700 K				
>75				
65				
50,000 hrs				
492 x 384 x 161(mm)				
	>110lm/W	>110 lm / W >110 lm / W	>110 lm / W >110 lm / W >110 lm / W >22,000 lm >15,000 lm >12,000 lm >15,000 lm >12,000 lm 5700 K 575 65 50,000 hrs	>110 lm / W >110 lm / W >110 lm / W >110 lm / W >22,000 lm >15,000 lm >12,000 lm >10,000 lm 5700 K >75 65 50,000 hrs









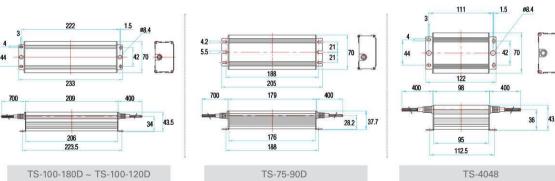
LED Street Light SMPS

[For Series connected LED's]

Features

- Universal AC input (90VAC up to 305VAC) / Full range.
- Short circuit / Overload / Over voltage / Over temperature Protection.
- Built-in constant current limiting circuit with adjustable OCP (Over Current Protection) level.
- Built-in active PFC function.
- IP 67 design for indoor or outdoor installations.
- Isolated Input Output.
- Cooling by free air convection.
- Non- electrolytic Capacitor.
- Long life time over 100,000 Hrs.
- Applicable for Dimming system. (0 ~ 10 : Optional)
- Built-in surge protection circuit.

Dimensions



Specifications

Model	TS-150-180D	TS-120-150D	TS-100-120D	TS-75-90D	TS-4048
Input Voltage		90 ~ 305 VAC			
Wattage	150 W	120 W	100 W	75 W	40 W
Power Factor (at 220 VAC)	≥ 0.99	≥ 0.98	≥ 0.97	≥ 0.95	≥ 0.96
Output Current	740 mA	700 mA	700 mA	700 mA	800mA
Output Voltage	180 V	150 V	120 V	90 V	48 V
Dimming Signal	0 ~ 10 V -			-	
Efficiency	≥ 94%	≥ 93%	≥ 92%	≥ 89%	≥ 89%
Life Time		100,000 hrs			
Operating Temperature	-40℃ ~ 50℃				
Size		233 × 70 × 43.5(mm) 205 × 70 × 37.7(mm) 122 × 70 × 43.5(m		122 × 70 × 43.5 (mm)	
Weight		970g		690 g	430 g



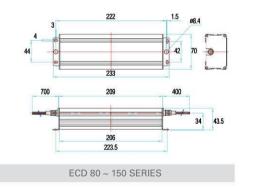
LED Street Light SMPS

[For Parallel connected LED's]

Features

- Universal AC input (90VAC up to 305VAC) / Full range.
- Short circuit / Overload / Over voltage / Over temperature Protection.
- Built-in constant current limiting circuit with adjustable OCP (Over Current Protection) level.
- Built-in active PFC function.
- IP 67 design for indoor or outdoor installations.
- Isolated Input Output.
- Cooling by free air convection.
- Non- electrolytic Capacitor.
- Long life time over 100,000 Hrs.
- Applicable for Dimming system. (0 ~ 10 : Optional)
- Built-in surge protection circuit.

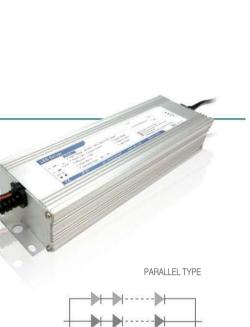
Dimensions

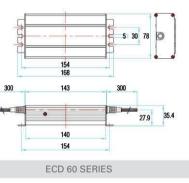


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Specifications

Model	ECD 150 Series	ECD 100 Series	ECD 60 Series
Input Voltage		90 ~ 305 VAC	
Wattage	150W (130W ~ 150W)	100W (80W ~ 120W)	60W (50W ~ 70W)
Power Factor	PF ≥ 0.98 / 115VAC	, PF \geq 0.98 / 220VAC, PF \geq 0.95	/ 277VAC at full load
Output Current	4.5 ~ 2.4 A	3.8 ~ 1.6A	2.2 ~ 1.0A
Output Voltage	30 ~ 56 V	24 ~ 56 V	24 ~ 56V
Dimming Signal	0 ~ 10 V		
Efficiency	92%	91%	90%
Life Time	100,000 hrs		
Operating Temperature	-40°C ~ 50°C		
Size	233 × 70 >	(43.5(mm)	168 x 78 x 35.4(mm)
Weight	970	Эg	590 g





[OLC(Outdoor Lighting Controller)]

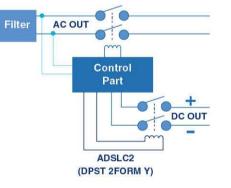
Dimming and Energy Consumption Monitoring Capabilities through Power Line Communication Based on LonWorks.

ADSLC II, a streetlight controller, builds streetlight control network with power line communication, and can be accessed through the iLon SmartServer by Internet or mobile wireless network in order to manage and control streetlights.



Features

- Enables dimming control and lamp on / off through dimming signal. (0~10V dc)
- Has metering function measuring electrical data such as current, voltage, power, etc.
- Is equipped with the function to detect leakage current.
- Complies with LonMark standards.
- Can build streetlight network through power line communication.
- Applies DPST 2FORM Y type relay to remove residual light of LED that protects lamp from surge during daytime and prevents energy loss by leakage current.



Specifications

Input / Outp	out Voltage	100 VAC ~ 250 VAC	100 VAC ~ 250 VAC Dimming Signal Voltage and Current	
Input / Output	Input / Output Max Current Max 1A (at 250 Volt)		Use Temperature	-40°C ~ 50°C
Leakage Current I	eakage Current Measuring Range Max 100mA		Storage Temperature	-50℃ ~ 90℃
Input / Outpu	Input / Output max Power		Size	208 x 68 x 37(mm)
	Processor	PL 3120 Smart Transceiver (ANSI-709.2)		
	Channel / Speed	PL-20C, 5.4 Kbit / Sec		
Communication	Protocol	Enhanced LonTalk [®] Proxy protocol		
communication	Eurotion block	on block NodeObject (SFPTnodeObject,Index:1) Lamp (SFPToutdoorLuminairController,Index:96)		
				3)
	PLC Regulation	FCC, Industry Canada, Japan MPT, European CENELEC EN 50065-1		

Street Light Smart Control Box

Composition

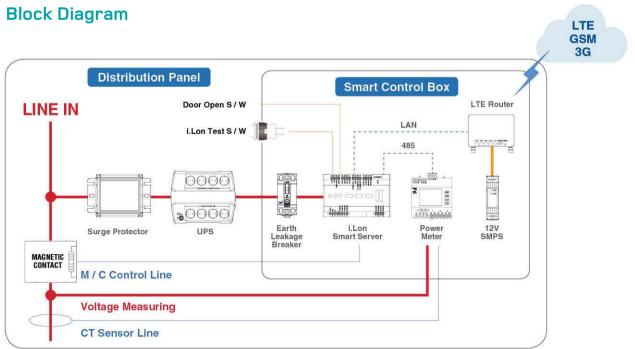
▶ i.Lon SmartServer PL

- Switching Supply
- ▶ Power Meter
- ▶ LTE Router
- ▶ UPS
- ▶ Earth Leakage Breaker
- Surge Protector

Features

- Enables real time monitoring and controlling using various devices. (PC, smart phone, tablet, etc)
- Monitors the status of lamps on / off, dimming level, failures, line voltage / current / power.
- Controls lamp on/off, dimming level.
- Supports access to the system through mobile devices. (iOS, Android)
- Supports power line communication.

- Protects the devices inside the box using 10kA rated breaking current breaker.







- Supports LTE (Band1, Band3, Band5, category3) and WCDMA(Band1), GSM.
- Optimized compact size. (280mm * 235mm * 94.6mm)

Advanced Streetlight Management Software

System Overview

This Advanced Streetlight Management System is a real time control system based on GIS that monitors and controls street lights remotely.

- \cdot Able to run up to 1,000 SmartServers and 100,000 light points
- Easy access and convenience of use through GIS (Map) service
- Able to use the system without installing client system through HTML5 web based service and to access the system with PC's, tablets and smart phones.
- Cost Reduction through building dynamic IP based network. (DDNS, static IP not used)



Features

Real Time Control

- Monitors in real time lamps on / off, dimming levels and electrical data etc.
- Schedule and program-based automatic control through stable local network.
- Able to control remotely through individual and group control.
- Reduces maintenance cost through detecting old lamps, abnormal state etc.

Energy Saving

- Realizes energy savings through sunrise sunset based dimming control.
- Reduces running costs and CO₂ emission.

Efficient Management of Street Light

- Builds GIS (Map) based facility management system.
- Traces the data of facility management and maintenance history.
- Efficient management through statistical analysis.

Detecting Failures / Alarming in Real Time

- Detects panel door open, outage, overvoltage, overcurrent, communication failure etc in real time and gives alarms.
- Informs users in real time through e-mail / SMS.
- Minimizes nighttime patrol and reduces civil complaints through immediate onsite actions.
- Efficient facility management.

Optimum Installation and Trial Run

- Integrated management from preliminary investigation to installation and trial run.
- Conducts preliminary investigation and builds management area through our registration apps.
- Collects installation information using the apps. (pole numbers, NID's, GPS positions etc)
- Automatic commissioning and onsite test through the installing software.



Integrated LED Streetlight Controller

All-in-one LED smart driver that performs multiple tasks of LED lamp brightness adjustment and read/ report of electrical data such as power consumption, current, voltage and etc, by combining power supply function and communication function



Features

- LED LAMP ON/OFF & Dimming control. (20%~100%)
- Various protection functions embedded. (lamp overcurrent / overvoltage monitoring and automatic output cutoff, etc)
- Gathers / reports input voltage, current, power consumption.
- Gathers / reports lamp run hours, energy use.
- With the power line communication modem (PLC-33) built in, it controls the lamp without extra communication lines.



Specifications

Items	Specifications	Remarks
Input Voltage	180Vac ~ 250Vac (50/60Hz)	
Input Current	0.65A@180Vac	
Power Factor	>0.93	full load condition
Rated Output	100W	
Efficiency	92% Max	full load condition
Output Voltage	144Vdc	
Output Current	700 mA(max)	
Dimming Range	20W ~ 100W	
Output Control Method	Constant Power Control	
Operating Temperature	-40°C ~ 45°C	
Case Temperature Max (Tc)	80℃	



LCM Series Lighting Control Module

The intelligent building system requires interoperable, reliable and efficient lighting facility more and more. The LCM is an Lonworks based lighting controller that provide 4 latch relay output for lighting application.

This lighting control module assures seamless integration into Lonworks, thus enabling more effective building operation and energy saving. It is designed to efficiently control and add value to the building industry.

Specially, LCM supports the function that is able to manage the communication traffic in lighting control network to improve the reliability of control network through using appropriate configuration property and detecting the error and retrying communication by comparing the control command and the status of latched relay.

ALCL-H4BM

ALCL-D4CS

Features

- 4 independent latch relay outputs.
- User friendly, customer based Plug-In.
- Provide a wide range of lighting control strategies.
- LED indication for each relay status.
- Easy installation and maintenance.

Specifications

Model	ALCL-D4CS	ALCL-H4BM
Processor	Neuron FT5000	
Transceiver	FT - X3, 78Kbps	
Processor Clock	101	Mhz
Memory	32K Flash Memory, 2K EEPROM	
Comm. Media	TP (Twisted Pair Line)	
Power	24VAC, 50mA, 50 / 60Hz	
Protocol	ANSI / EIA / CEA 709.1 Lon Talk Protocol, ANSI / EIA / CEA 709.3 TP	
Comm. Type	Standard	Message
Dimension	123 x 105 x 85(mm)	123 x 105 x 67(mm)
Operating Temp.	0°C ~ 50°C	
Mounting	Wall mount type or Din rail base plate type	

LPS Series Lighting Programmable Switch

The LPS product series are the LonMark programmable switches for the open protocol lighting control applications. It can be used with any other Lonworks interoperable devices.

Bar type, square type and metal cover type are available. Each type has 1, 2, 3, 4 and 8-circuit switches.

These devices have a protection coupling circuit to avoid potential damage from misuse or misapplication especially when the Linked Power Line becomes short circuit. Moreover, Users can use both the 4-Wire FTT-10 Lonworks application and 2-Wire linked power LonWorks application without extra setting.

Features

- FTT-10 and LPT-10 compatible system.
- Lonworks "Open System" architecture, topology free, polarity free.
- Interoperable and LonMark 3.2 compliant.
- LED indication of the relay status.
- · Easy installation and maintenance.
- Linked power application compatible.

Specifications

Model	LPS 1, 2, 3, 4, 8	
Processor	Neuron FT5000	
Transceiver	FT - X3, 78Kbps	
Processor Clock	10Mhz	
Memory	32K Flash Memory, 2K EEPROM	
Comm. Media	TP (Twisted Pair Line)	
Power	4 - Wire FTT-10 Network Application 2 - Wire Link Power Network Application MAX 42VDC	
Protocol	ANSI / EIA / CEA 709.1 Lon Talk Protocol, ANSI / EIA / CEA 709,3 Twisted Pair Line	
Comm. Type	Standard / Message	
Dimension	1~4CCT : 70mm × 120mm(w×H) / 8CCT : 118mm × 116mm(w×H)	
Operating Temp.	0°C ~ 50°C	

CONTROL SYSTEM LEADER



BAR TYPE BUTTON SWITCH



SQUARE TYPE BUTTON SWITCH



METAL COVER TYPE SWITCH



Automatic Welding Solution

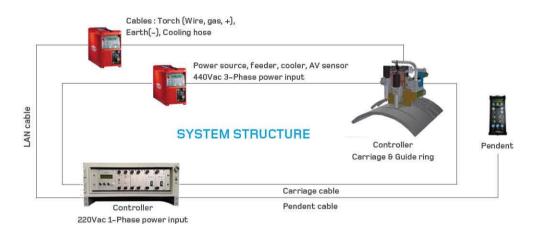


DUAL TORCH CARRIAGE

Offshore Pipeline Automatic Welding System (Dual Torches)

Used for undersea pipeline welding installed on a cable ship

- Welding technique : FCAW or GMAW
- Welding Type : Root, Hot pass + Fill, Cap pass
- Seam tracking : Torch weaving center auto tracking
- Light guide ring able to cope with various pipe sizes
- Modularized carriage structure : easy maintenance
- Automatic change in welding condition based on welding postures(5G)
- Single carriage with dual torches
- Simultaneous welding with two carriages divided into port and starboard
- Auto voltage(current) control : Torch height auto tracking



Actual Applications

- 2004 > Provided HHI (Hyundae Heavy Industry) Barge-2500 with the welding system (10 sets of the controllers and spare parts) and supplied technical support.
 - Provided HHI Barge HD-60 with the welding system(10 sets of the controllers and spare parts) and supplied technical support.
- 2004 ~ 2012 > HHI and other companies conducted more than 20 projects using the system with Adic technical assistance.
- 2010 > Provided Geumseong GTC with the system(10 sets of the controllers and spare parts) and supplied technical support.
- 2011 > Provided Inwoo Engineering with the System (18 sets of the controllers and spare parts) and supplied technical support.
- 2012 > Automatic welding system upgrade for J-Lay Pipeline.

Automatic Welding Solution

All-posture Light Fillet Carriage

Automatic welding carriage used for butt welding, vertical welding, horizontal welding, flat position welding, etc.

- Light design : 5.7kg
- Weaving functions : width, speed, L / R stop time setting
- Torch center movement function : able to move during welding
- Able to set continuous /sporadic welding mode
- Able to change the design of torch driving part according to welding method
- Provides welder control interface (voltage, current, inching, gas check)
- Applied small / light rail of detachable magnetic type
- Constant speed control algorithm : Speed setting screen available

Automatic Track Welding System (Single Torch)



Equipment used for site customized welding pipes.

- · Able to connect with various brands of welders.
- Lincoln (CAN, DeviceNet), Miller (485, Modbus) - Fronius. (LAN, Modbus UDP)
 - Uses various types of guide rings like fixed or assembled type.
- Torch motion control with high degree of freedom. - Tracking, weaving, height, tilt

- Able to apply to pipes bigger than 12 inches and up to horizontal welding.

Smart Welding Information System

Efficient welding process control. • Real time welding data collection.

- Welding length, time, current, voltage, wire, gas and power consumption.
- Builds wire / wireless communication system in yard unit.
- · Builds real time welding data server. - Welding speed, running rate, current wave, welded volume, etc.





FILLET CARRIAGE







INTERNAL LINE-UP CLAMP

• Is used for oil / gas pipes welding, marine/overland plant, etc.

- Extension of feeding wire. (push-pull type, option)
- Failure detection, remote welding control and monitoring.

Crane Anti-collision System

Features

Crane position recognition and automatic control system

Automatic stop control interconnected to the crane PLC
User interface device

Linear algorithm/Anti-collision control algorithm

- Detail information coming from 3D Modeling and linear algorithm
- Interoperable to GIS-based industrial site information

Stable communication network

• Wireless mesh network communication

Real time detection of cranes in operation

• High precision RTK DGPS, tilt angle sensor

Wire / wireless network technology to transmit collision / sensor information

- Builds high performance mesh network, RF network
- Wire communication of the sensor information (GPS, tilt angle, etc) within the crane
- Applied standard communication control technology Industrial Field BUS LonWorks (ANSI EIA 709.1)





CRANE OPERATOR PROGRAM

Management Software

Integrated Management Software	Crane Operator Program	
All cranes running status monitor	 Gives an alarm when neighboring cranes approach within the hazard distance 	
Distance information among the cranes	Displays the distances from neighboring cranes	
Crane position information	 Supports observation from front, side and top based on 3D 	
Built-in crane anti-collision algorithm	Provides various information of individual crane	
 Individual crane information display (Crane PLC data, wind speed and direction) 	Supports observation in detail through	
Supports monitoring from 3D-based various angles	zoom-in / zoom-out	

i.Node Series



i.Node product series are direct digital controllers that adopt LonWorks open and distributed control network standards (ANSI/EIA/CEA 709.1). These are used widely in HA, BA and FA with capability of two way, multi-target and multi-control.

The series provide various models that are equipped with up to 8 digital /analog input /output channels.

► DI4DO4	► DI4AI4	► AI8	► D08
► DC4DO4	► DI8	► FB i.Node	► A04

Features

- Provides LNS Plug-In program. (various I/O setting)
- Easy maintenance. (wiring disconnection not necessary when it is replaced)
- Specialized iNode series available for AHU, fan and pump control. (DI4D04)
- Able to simplify control logic through making site-customized function block.
- Provides 2 LonWorks TP communication port channels. (easy wiring)

Specifications

Dresses Tures		
Processor Type	FT5000	
Transceiver Type	FT - X3	
Processor Clock	10N	ЛНz
Memory	32K Flash Memo	ory, 2K EEPROM
Comm. Media	TP (Twisted Pair Line)	
POWER	15 ~ 30 VAC / VDC	
Protocol	ANSI / EIA / CEA 709.1 Lon Talk Protocol	ANSI / EIA / CEA 709,3 Twisted Pair Line
Digital Input	Dry - contact	
Digital Output	Relay (MAX 1A)	
Analog Input	Resistor (0~50kΩ) / Current (4~20mA) / Voltage (0~10V)	
Analog Output	Current (4~20mA) / Voltage (0~10V)	
Dimension	92(W) x 96(H) x 82(D) mm	
Operating / Temp.	-10°C ~ 50°C	
Mounting	Wall mount or Din Rail mount	

CONTROL SYSTEM LEADER



PLC-SIP Module

LonWorks PL3120 SIP – Hybrid IC

Features

- · Core Module for LonWorks Power Line Communication.
- Supports PL3120 Full I / O.
- Built in Crystal.
- Applied standard 1.27mm Pitch 29 pin.



PLC-33

Specifications

CPU	PL3120, 10MHz,	
1/0	12 Pin Full I / O port support	
Comm. Media	LonWorks : Power Line	
Protocol	LonTalk Protocol (ANSI/EIA 709.2)	
Power	5VDC, 12VDC INPUT	
Operation	-40°C to +85°C operating and non-operating	
Temp. / Humidity	20 to 95% RH @ 50℃	
Dimension	32mm x 20mm x 3mm (W x H x D)	

APC Series

LonWorks Power Line Communication Coupler

Features

• Supports signal coupling between the different phases in PLC network.

· 3-wiring type and 4-wiring type available



PLC Coupling loss	- 6dB	
Maximum operation voltage	250VAC	
Band width	100KHz ~ 140KHz	
Withstand voltage	For one minute at 1,800V DC between line to line. 300M $\!\Omega$ minimum at 500V DC between line to case	

Blocking Filter Series

Signal protect filter for LonWork PLC

Features

- Blocks the packet transferred from other local networks.
- Reduces entire network communication traffic.
- Guarantees a stability of LonWorks power line communication in such a traffic problem.
- Supports signal coupling function between three phases for power line communication.

Specifications

Model	ABL 104NE	ABL 100E	ABL 050E	ABL 050SE
Rated Voltage	Theree Phase 4wire type	Sigle Phase 200 / 110VAC	Single Phase 220 / 110 VAC	Single Phase 220 / 110 VAC
	380/220VAC 100A			
Rated Current (A)	100A		50A	50A
Temperature Operating Range	-10°C ~ +40°C			
Attenuation [dB]	>-45dB			
Blocking Bandwidth	110KHz ~ 140KHz			
Size	140 x 60 x 175 mm (W × H × D)	66 x 165 x 60 mm (W x H x D)	69 x 115 x 42.2 mm (W × H × D)	39 x 130 x 41.7mm (W x H x D)
weight	2,000g	1,600g	600g	600g

Surge Protector

- Protects LED converters from surges and lightning strikes.
- Series setup and built-in fuse help prevent fire caused by overheating / overcurrent, by blocking unwanted voltages above the safe threshold.

Rated voltage	Single Phase 220Vac		
Max operating voltage	250Vac (250Vac fuse built-in)		
Operation starting voltage	820V (L-N), 1800V (L-G / N-G)		
Protection mode	3Mode (L-N,L-G,N-G)		
Surge capacity	13kA / Mode		
IP Rating	IP67 (asphalt potted)		
Operating temperature	-40°C ~ 60°C		
Weight	150g		



and Signal distortion are

Rated Voltage

impedance

Blocking Bandwid







protected by AFLP-20.

Single Phase 220 / 110 VAC, 2A

50ohm (115 ~ 132 KHz Band, within ±10%)

110KHz ~ 140KHz



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