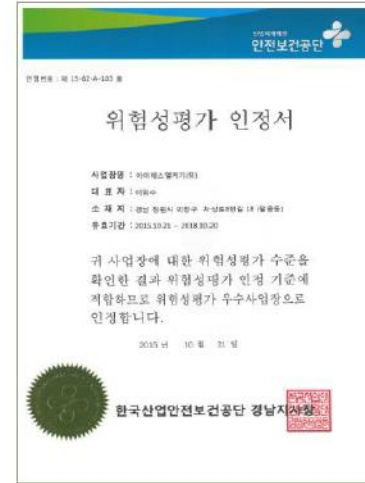


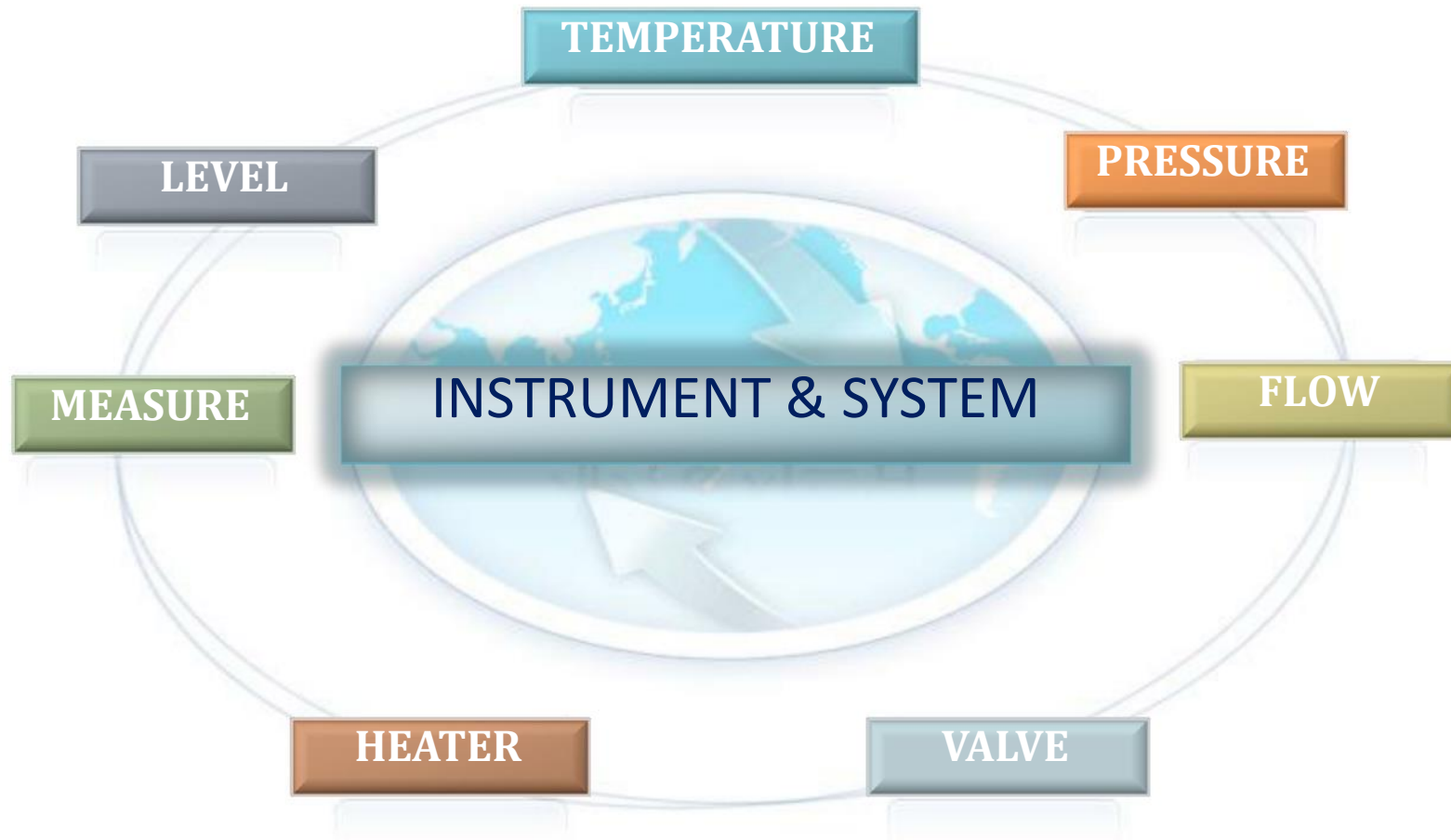
COMPANY HISTORY

- 2001. 02. 14 Established the company ISL INSTRUMENT*
- 2002. 06. 22 Build a joint Factory with DONGYANG SENSOR*
- 2005. 07. 01 Product of THERMOCOUPLE, RTD SENSOR*
- 2005. 07. 18 Registration of Design SCALE INDICATE THERMOCOUPLE*
- 2007. 01. 01 Merged with the DONGYANG SENSOR CHANGWON FACTORY*
- 2008. 09. 11 Certified for ISO9001*
- 2008. 10. 10 INTELLIGENT SENSOR LINE Co., Ltd. Opening*
- 2009. 10. 01 Product of LEVEL SWITCH*
- 2010. 01. 20 Certified for Reliability Industrial Thermometer Sensor*
- 2012. 08. 05 Move the HEAD OFFICE*
- 2012. 11. 13 Registration of Patent NITRADE HEAT TREATMENT SENSOR*
- 2013. 12. 05 Registration of INO-BIZ*
- 2014. 10. 22 Established a RESEARCH INSTITUTE*
- 2015. 08. 13 Registration of Patent OXIGEN SENSOR VERIFIER*
- 2015. 10. 21 Certification of RISK ASSESSMENT*
- 2017. 07. 01 Manufacturing of OXIGEN SENSOR*
- 2018. 12. 01 Development of Coal Pre-Ignition Detection System(CPDS)*

CERTIFICATES



SALES SECTOR



SHEATH THERMOCOUPLE

PICTURE



INFORMATION

- Product : SHEATH THERMOCOUPLE
- Category: THERMOCOUPLE
- Description : SHEATHED THERMOCOUPLE can measure a wide range of temperature from -200 °C to 1300 °C.
- Feature:
This product can be made THERMOCOUPLE K, J, R, T, N, etc. Selecting length, thickness, material etc. you can customize and use this product.
- Model : ISL-1000 Series
- This product is available for the overall sector automotive, steel, pharmaceutical, shipbuilding, chemical, etc.

THERMOCOUPLE

PICTURE



INFORMATION

- Product : THERMOCOUPLE
- Category : THERMOCOUPLE
- Description : With thermocouple type K , it is designed to measure range -200~1300°C.
- Feature :
Material of tube : SUS310S OR SUS316 OR SUS304
Diameter of : 21.7Φ OR OTHER
Length of : 100~3000mm
KS CLASS B
- Model : ISLS-2000 Series
- This product is available for the overall sector automotive, steel, pharmaceutical, shipbuilding, etc.

RESISTANCE THERMOMETER SENSOR

PICTURE



INFORMATION

- Product : RTD
- Category : R.T.D(RTD)
- Description : It is a PT 100 device and can measure the -200 ~ 300 °C. by applying a circular connectors
It is easy to remove and attach .
- Feature :
Material of protection : SUS316L OR SUS304
Diameter of : 3.2Φ OR OTHER
Length of : 50~1000mm
Connection screw : PT1/2 OR OTHER
KS CLASS A
- Model : ISL-4000 Series
- This product is available for the overall sector
automotive, steel, pharmaceutical, shipbuilding,
chemical, etc.

THERMOWELL

PICTURE



INFORMATION

- Product : THERMOWELL
- Category : THERMOWELL
- Description : This product can be protection for RTD sensor and thermocouple.

- Model : ISL-6500 Series
- This product is available for the overall sector automotive, steel, pharmaceutical, shipbuilding, chemical, etc.

LEVEL SWITCH

PICTURE



INFORMATION

- Product : LEVEL SWITCH
- Category : LEVEL SWITCH
- Description : This product can be used 2 points contact output or control of many points contact.
- Feature :
 - Contact type : NORMAL OPEN
 - Number of HIGH, LOW and more
 - LENGTH : 100~2000 mm
 - MATERIAL : SUS304 OR SUS 316
 - CONNECTION : 2" SOCKET and other
 - PIPE DIAMETER : 8.0~13.0Φ
- Model : ISLS-600, 700 Series
- This product is available for the overall sector automotive, steel, pharmaceutical, shipbuilding, chemical, etc.

CARBON PROBE

PICTURE



INFORMATION

- Product : CARBON PROBE
- Category : OXYGEN SENSOR
- Description : This product is a compact, lightweight and simple.
- Feature : High-temperature carburizing heat treating and endothermic gas generators.
- High accuracy and repeatability.
- High efficiency, low maintenance.
- Compatible with all carbon controls.
- Probe Out diameter : 21.7Φ
- Probe length : 600mm / 700mm
- Probe material : SUS310
- Probe Connection Fitting : PT1"
- Model : CP-600-X1 / CP-700-X1
- It is control furnace atmospheres and generator gas supplies over the full range of carburizing hardening applications.

SAT UNIT FOR CARBON PROBE

PICTURE



INFORMATION

- Product : SAT UNIT FOR CARBON PROBE
- Category : OXYGEN SENSOR
- Description : This product is a compact, lightweight and simple.
- Feature : It features a repeatability and accuracy when comparing measurements. The response to all carbon control system with a short preparation time and low maintenance.
- Probe Out diameter : 12.0Φ
- Probe length : 700mm
- Probe material : INC600
- Probe Connection Fitting : PT1/2"
- Model : O2SAT+S / O2SAT-X1
- This equipment is used to verify parts of the control system of carbon in the carburizing heat treatment.

WIRELESS MELTING THERMOMETER

PICTURE



INFORMATION

- Product : WIRELESS MELTING THERMOMETER
- Category : MELTING THERMOMETER
- Description : MELTING THERMOMETER can be measured 0 ~1700°C temperature range.
- Feature :
Input type : R, S, K
Holder material : SUS316 OR SUS304
Wasting Thermocouple length : 150~1500mm
Wireless area : 500M
Maximum Each Thermometer: 8ch
- Model : ISL - WLT SERIES
- This product is available for the overall sector steel melting, aluminum melting process.

DATA ACQUISITION UNIT

PICTURE



INFORMATION

- Product : DATA ACQUISITION UNIT
- Category : DATA ACQUISITION
- Description :
The multi point analog data collection and alarm device
- Feature : This product's features are a real-time monitoring and data collection performed at the same time, while the real-time alarm information is available, it is easy and simple to install and configure.
- Model : ISL-SYS-DAQ
- This auto parts plant product is designed for the heat management system. Can be used for any purpose other than.

ANALOG/HYBRID RECORDER

PICTURE



INFORMATION

- Product : ANALOG RECORDER, HYBRID – RECORDER
- Category : PAPER RECORDER
- Description This product is a new Digital Hybrid Recorder and Analog Recorder and High Speed Multi Large Recorder.
- Feature :
Recorder Size : 100mm, 180mm, 250mm
External Memory : SD Card 2GB (Hybrid Type) Input
Channel : 6ch ~ 48ch
- Model : AH4000, AL4000, LE5000, EH3000, EL3000
- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products.

GRAPHIC RECORDER

PICTURE



INFORMATION

- Product : GRAPHIC RECORDER
- Category : PAPERLESS RECORDER
- Description This product is a new Graphic Recorder and set the system,
- Feature :
 - Recorder Size : 100mm, 180mm
 - Graphic Display : 5.2" TFT LCD, 12.1" TFT LCD
 - Internal Memory : 64MB, 96MB
 - External Memory : CF Card 4GB, SD Card 2GB
 - Input Channel : 6ch ~ 48ch
- Model : KR2000, KR3000, SDR100, 6100A, 6180A
- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products.

INFRARED THERMOMETER

PICTURE



INFORMATION

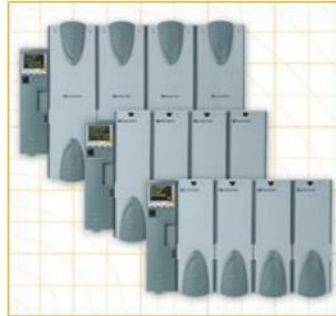
- Product : INFRARED THERMOMETER
- Category : INFRARED THERMOMETER
- Description : This product is a non-contact thermometer and set the system, can measure a wide range of temperature from $-20\text{ }^{\circ}\text{C}$ to $3000\text{ }^{\circ}\text{C}$.

- Model : IR-CA, IR-CS, IR-FA, IR-SA, IR40, IR20

- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products

POWER REGULATOR

PICTURE



INFORMATION

- Product : POWER REGULATOR
- Category : SCR
- Description : These products are new Digital Power Regulator and set the system. These products are True Power Control is Possible.
- Feature :
Control Type : Phase Angle and Zero Cross Switching.
Controlled Phases : 1 Φ / 3 Φ
Maximum Voltage : 500V, 690V
Maximum Current : 800A ~ 4000A
- Model : EPower, Epack, JT, JS, JU, STR Series
- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products.

PRESSURE TRANSMITTER

PICTURE



INFORMATION

- Product : PRESSURE TRANSMITTER
- Category : PRESSURE
- Description : This product is a Precision pressure Transmitter and set the system, succeeding the current accuracy : $\pm 0.2\%$, $\pm 0.05\%$
- Model : MS-P100, MSP-200, MS-P500, VPRQ, VPRT, EXVPM Series
- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products.

FLOW METER

PICTURE



INFORMATION

- Product : FLOW METER
- Category : FLOW
- Description : This product is a Digital Flow meter and set the system, succeeding the current accuracy : $\pm 2.5\%$, $\pm 0.5\%$
- Model : KOI, KMT, KOT, KOM, MH Series
- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products.

Heater

PICTURE



INFORMATION

- Product : ELECTRIC HEATER
- Category : HEATER
- Description : This product is a Industrial Electric Heater and Immersion Heater and Cartridge Heater and KANTHAL's Strip & Wire Heater.
- These products are the domestic production can be applied in many fields such as semiconductor, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant, food products.

Temperature Profiling System

PICTURE

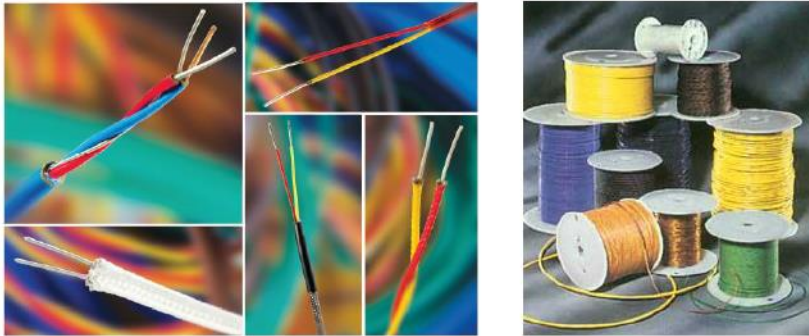


INFORMATION

- Product : Phoenix TM
- Category : Machine for TUS, Profiling System
- Description : PhoenixTM designs and manufactures temperature profiling systems for industrial heat treatment processes such as aluminium and steel heat treatment, steel slab re-heat, glass annealing, windscreen bending, ceramic firing, wet paint curing and powder coat curing. Measuring the temperature profile of products through these processes is achieved by attaching thermocouples to the product, connecting these probes to a Data Logger, and by protecting the Data Logger with a Thermal Barrier.
- Model : TS01,TS02,TS03,TS04,TS05,TS12
- Through our website, you can download about catalogs in detail.

THERMOCOUPLE WIRE

PICTURE



INFORMATION

- Product : THERMOCOUPLE WIRE and EXTENTION WIRE
- Category : WIRE & CABLE
- Description : This Product is a High-Accuracy and High-Temperature thermocouple wire and Extension wire.
- Feature
- Element wire : AWG36 ~AWG18
- Insulation material : PVC, TEFRON, Glass Fiber, Ceramic Fiber
- These products are the domestic production can be applied in many fields such as semiconductor, aerospace, steel, pharmaceutical, electronics, appliances, machinery, metal, ceramics, chemicals, papermaking Plant.

PLC + HMI ALL-IN-ONE SYSTEM

PICTURE



INFORMATION

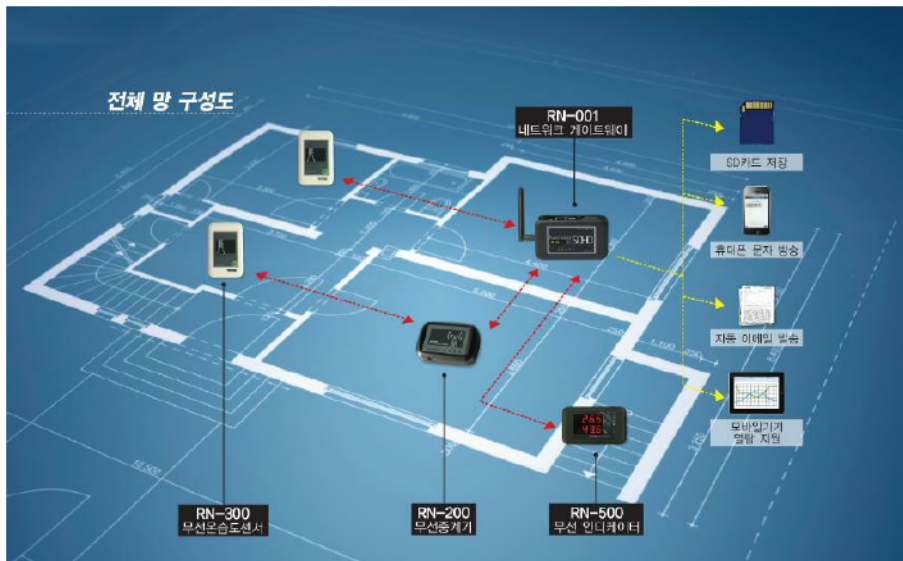
- Product : Unitronics
- Category : PLC & HMI
- Description : All-in-One Programmable Logic Controllers, for your most challenging, complex automation projects : UniStream Modular, enables users to create customized controller solution in three steps or fewer, and UniStream Built-in, highly compact programmable logic controller, where the PLC, HMI, and I/Os are built into a single unit.
- I/O options include digital, analog, high-speed, temperature & weight measurement
- Expand up to 2,048 I/Os
- **Ports:** Ethernet, CANbus, USB host & device Audio, additional COM modules for RS232/RS485
- **Communication:** Ethernet IP, Web server, e-mail & SMS, GPRS, TCP/IP, MODBUS, CANopen, UniCAN, BACnet and M-Bus via gateway

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WIRELESS DATA MONITORING SOLUTION

PICTURE



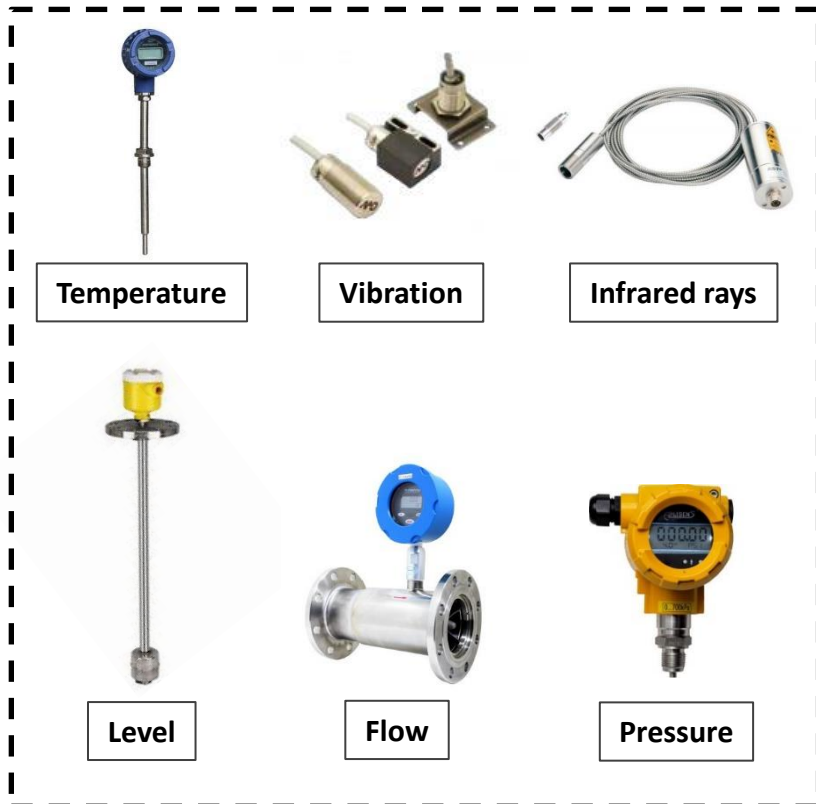
INFORMATION

- Product :
WIRELESS DATA MONITORING SOLUTION
- Category : WIRELESS DATA MONITORING
- Description : It is real time wireless data monitoring system in industry the scene.
- Feature : Support a variety of communication methods, 2.4GHz wireless communication, Industrial MODBUS TCP, HTTP for Web Server , Remote Setup TELNET.
- Model : RN001, RN300, RN910, RN200, RN500
- Professional monitoring software.
Cloud Monitoring Services.
Automatic report output .
PC Type Monitoring Software

SMART FACTORY SYSTEM PROCESS

BUSINESS PROCESS

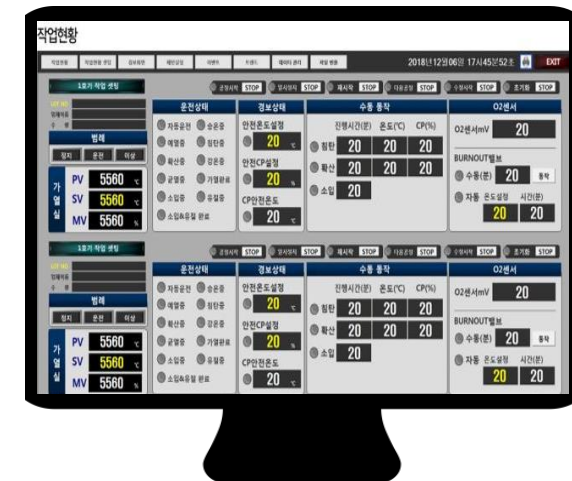
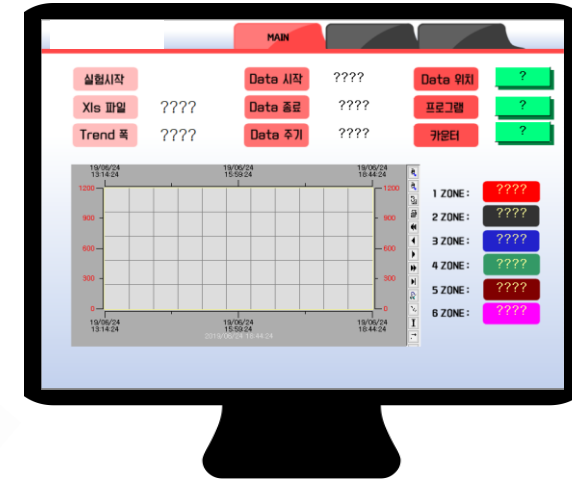
INFORMATION



Serial
Ethernet
>>>



PLC



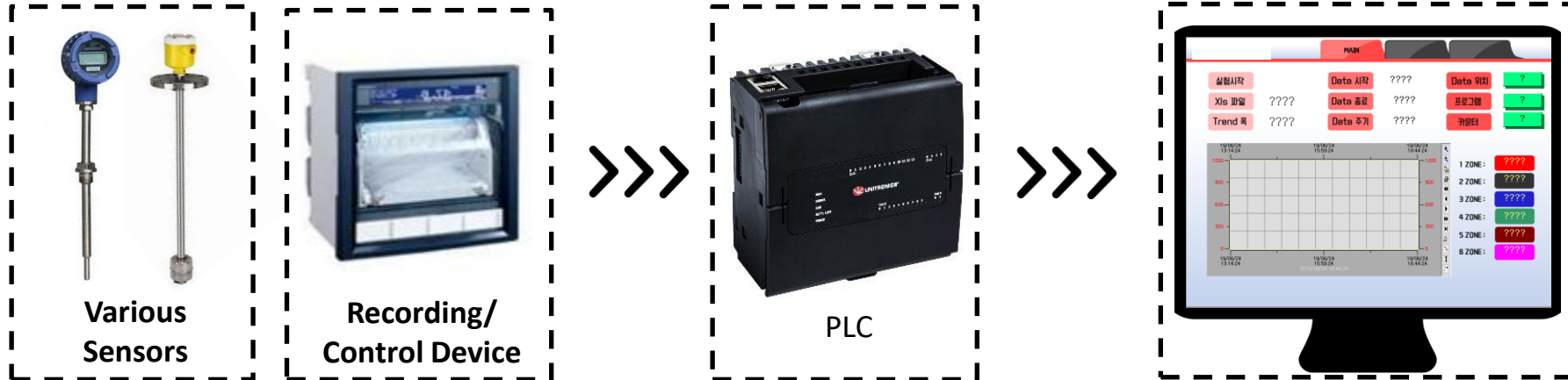
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SMART FACTORY SYSTEM

BUSINESS PROCESS

INFORMATION



- Real-time data transmission
- Ethernet Communication
- Serial Communication
- Various sensor's value (DI/DO,AI/AO)

Data Acquisition(DAQ)

- Real-time data saving
- Data Analyzing
- Data Transfer to PC
- Alarm, Signal

Data Integration

- Real-time data monitoring
- Data transfer to DB or ERP

Monitoring System

PARTNERS

Eurotherm.
by Schneider Electric

 SAMWON TECH

 PhoenixTM
Phoenix Temperature Measurement

CHINO

 FLOWNICS

 주식회사 한국히타
HANKOOK HEATER Co., LTD

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