www.kepco.co.kr/trustedpartner

Power Quality Measurement and Analysis Instrument

EdiTech

Eng.Ver

Message

Editech Co., Ltd. is a company that specializes in precision instruments established in 1998.
Based on the accumulated know-how, we continue to challenge the development of diagnostic facilities that can efficiently supply power and improve power quality through various technology exchanges at home and abroad, as well as prevent electricity accidents in advance.

Through the cooperative research project with Korea Electric Power Corporation (KEPCO), we have researched and developed power diagnostic facilities such as digital recorder, absolute phasedetection system, live CT test set, and leakage current diagnostic equipment.

Editech Co., Ltd. is expanding its new business into telecommunication and medical devices by developing power adapter for information and communication devices, and uninterruptible power supply (UPS) for the network management system of 5G telecommunication devices, and AI facial temperature measuring device.

Demand for new measuring instruments is rapidly increasing due to the advancement and innovation of high-tech IT industries such as renewable energy, semiconductors, information and communication, global environment and space engineering, medical and genetic engineering. In the global era, the need for specialized measuring instruments in high-tech industrial sites and R&D is an essential phenomenon to strengthen competitiveness.
In order to address these trends and customer needs, Editech Co., Ltd. is constantly working on developing smart precision measuring instruments that are compact size for improve user convenience and intelligent for automate measuring procedure.

We are committed to creative ideas and basic research on new technologies. Since 2001, it has been designated as a venture company by new technology consecutively and has been certified as a New Excellence Technology (NET).
Editech Co., Ltd. awarded the gold prize at the 'International Exhibition of Inventions' held in Geneva, Switzerland. And holds intellectual property rights including dozens of patents and program registration.

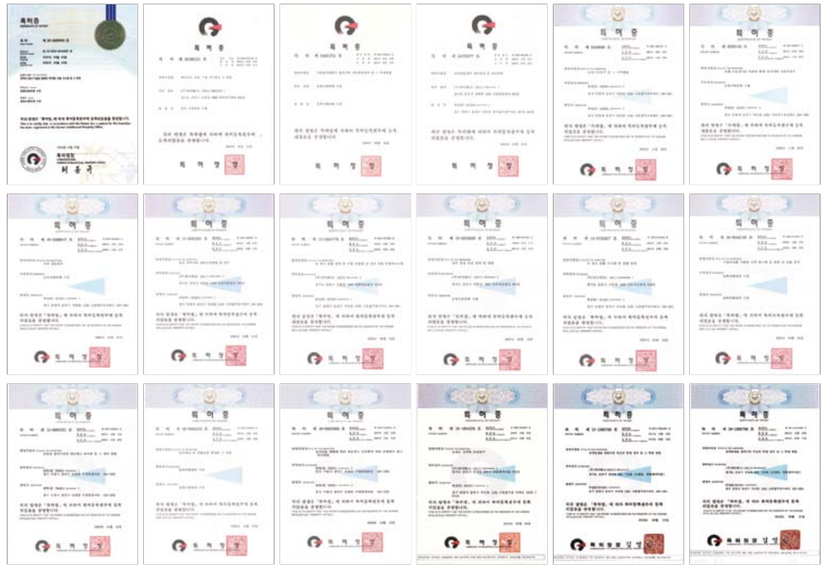
All employees, including affiliated laboratories, are committed to creating new technological innovations and value by working together to achieve the highest level in the world.

Editech Co., Ltd. will continue to provide the products that customers demand in a timely manner through continuous research and development, and sound corporate management. And will become a sound company that fulfills our social responsibilities by developing creative new products and practicing customer-centered management.

Thank you.

President / **Sang Jun, Choi**

Patents



Certification

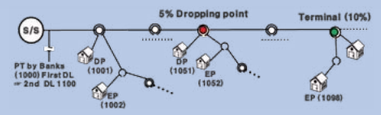
Awards

History

2020	11. 03.	Registered as a medical device manufacturing business (manufacturing business license number: 7086)
	06. 10.	Designated as a SMEs with excellent technical capability (No.FTS-2020-10654)
2019	12. 04.	Excellent Corporation R&D Center Recognition (No.2019-0019)
	05. 18.	Moved headquarters to Anyang SKV1 Center (Dongan-gu, Anyang City)
2018	12. 10.	The Best Valuable SMEs in Gyeonggi Province Certification (No. 2018-033)
	11. 01.	Registered patent (No.10-1916362) Intelligent power facility failure prediction system and method using three-phase leakage current measurement method due to insulation deterioration
2017	02. 22.	COS Hot Stick with Lighting Source(3m,6m) safety certification by KOSHA
	01. 31.	Certification "KEPCO Trusted Partner"
2016	11. 11.	Incorporation between EdiTech and EdiTech power Co., Ltd. (the gross capital 4.78$ million)
	10. 31.	Completed development of Line Finder
2015	11. 11.	Received a "Ministry of Trade, Industry and Energy" ministerial citation
	10. 26.	Received an order of Industrial Service Medal
	07. 30.	Completed development of CT Ratio Error Tester
2014	07. 30.	Industry-academia cooperation agreement entered into (Suwon University)
	07. 11.	Received Certification of ISO14001: 2004
	02. 26.	Be awarded a "Korea Industrial Technology Association" best CEO
2013	12. 09.	Performing the Pilot Project (MOP in Indonesia, Philippines)
	11. 01.	Public-private co-investment development projects agreement signed "CT Ratio Error Tester"
	09. 06.	Agreement signed "KEPCO Trusted Partner"
	08. 21.	Registered patent [CT Ratio Error Tester] Patent No. 10-1300789
2012	12. 18.	Exported the Phase Finder system to TNB(Malaysia)
	07. 30.	Completed development of new Digital Recorder(3P)
	06. 26.	KOTRA overseas branch of business agreement (Jakarta, Indonesia)
2011	12. 14.	"One-KEPCO export of companies" selection
	09. 05.	Registered patent [Cap lantern] Patent No. 10-1064339
	08. 19.	Completed development of CT Ratio Tester(Low Voltage)
	07. 25.	Signed a MOA with VECO(Philippines)
	07. 18.	Signed a MOA with PLN(Indonesia)
2010	08. 27.	"One-KEPCO export of companies" selection
	04. 23.	2010 Geneva International Invention Fair “Gold Medal" [Phase Finder System]
	02. 25.	Completed development of Cap Lantern
	02. 02.	Completed development of new Digital Voltage Recorder
	01. 30.	Completed development of transmission tester
2009	12. 24.	Designated as the 7th excellent Development Products selection (Phase detection system)
	05. 31.	Completion of development Phase Finder System Expended use by KEPCO
2008	12. 10.	Completed development of new Thermalscop
	12. 08.	Founded new factory at SUWON high tech. industrial estate.
	08. 26.	Received Certification of NET[NET No., 0222 Phase Finder Sys. with V.O.S.
	06. 30.	Registered patent [Phase Finder Sys.] Patent No. 10-0844166
	05. 31.	Completed development of data transmission/VOS
2007	10. 29.	Completed development of phase finder system
	06. 14.	Registered patent[Phase finder system]. Patent No. 10-0730627
	05. 31.	Completed development of ThermalScope
	05. 28.	Registered program copyright/ThermalScope
	04. 20.	Completed development of UPS/KEPCO
	04. 01.	Selected as Innovative Power Venture Business by KEPCO
2006	08. 15.	Received Certification of ISO9001: 2000
	07. 05.	Received Certification of new excellent technology [NET No., 0001 : Standard phase detecting technology]
	06. 22.	Registered patent [Phase Finder Sys. Patent No. 10-0594778
	05. 11.	Registered patent [The method and facility for 3 phase power] Patent No. 10-0581261
	05. 03.	Registered Program [IR-Image Analysis Program]
	03. 07.	Registered patent [Detecting device by using magnetic field] Patent No. 10-0560917
2005	11. 09.	Registered patent [Magnetic field detector] Patent No.0529143
	11. 08.	Registered patent [3 Phase Voltage Recorder] Patent No.0528606
	04. 07.	Selected as Prospective Power Venture Business [KEPCO]
	03. 02.	Registered patent [Power transmission system] Patent No.045977
2004	10. 11.	Established research and development lab [KOITA]
	08. 16.	Registered patent [Auto. earth resistance measuring] Patent No.044575
	07. 29.	Selected as Prospective Small and Medium Business [Gyunggi-Do]
2003	10. 17.	Designated as Venture Business [SMBA]
2002	07. 25.	Designated as CLEAN workplace [Minister of the Labor Dept.]
	05. 21.	Registered patent [Voltage recording device] Patent No.0239121
	05. 03.	Registered patent [Power quality] Patent No.0313830
2001	08. 31.	Designated as Venture Business [SMBA]
	06. 27.	Moved to Sanbon Town Building, Gunpo-Si, Gyunggi-Do, Korea
2000	11. 25.	Completed development of automatic earth resistance measuring device for transformer side electric pole. [KEPCO]
	05. 15.	Completed development of electronic recorder. [Consortium project]
1999	12. 04.	Developed electronic type of recorder.
	04. 15.	Received permission of Exclusive R & D [MOST]
	03. 02.	Consortium agreement for development [Ind. Univ. Research]
1998	12. 30.	Awarded the qualification of participant for tender [KEPCO]
	10. 22.	Established incorporated Editech Co., Ltd.

Digital Recorder(Type 2010A)

Single Phase



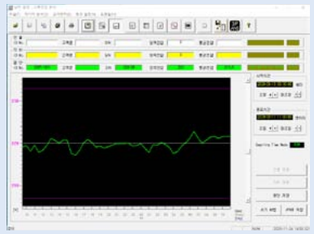
Applications

It is a device that can record and manage the fluctuations of voltage supplied and the presence or absence of power outages to customers from KEPCO.
It is a recording device that calculates the average voltage by calculating the measured data during the sampling time.
It records the voltage over the upper and lower limits, the power failure time, and the recovery time in real time, and also analyzes the voltage fluctuations by time, month, and season with a PC.
By using this device, measurement data can be converted into DB so that the appropriate voltage can be supplied to the customer, and it is used for the purpose of monitoring and analyzing the state of power quality in a specific place for a long time.

Features

■ Recorder

- This device can acquire voltage data from measurement and save data into portable USB memory stick at the designated distribution spot.
- Easy & simple operating helps device users to control various functions.
- High resolution Color TFT LCD display is used for easier reading gradation
- Attainable information: sampling time average voltage value, recording start time(date), recording end time(date), the device(user) ID, electricity distribution location serial no. (four digits), serial number of device, location of measurement
- Consistency of display layout for easy analysis of sampling time based recording
- This device can be linked to PC for the data-in and data-out using a cable.
- Data analysis by direct use of stored data in USB memory stick in the work place spot.



Single-phase data graph

■ Analysis program

- Information that can be checked in the analysis program:
  average voltage for each sampling time, measurement start time, measurement end time, ID No (4 digit office code-4 digit customer ID), measurement recorder serial number
- Confirm status of voltage as well as average voltage by graphic
- Analyze hours of power failure and recovery.
- Analyze voltage exceeding upper and lower limit.
- Analyze load characteristics by time zone or season
- PC and voltage recorder data cable connection, data reception and analysis by analysis program.
- Measurement data stored in USB can be analyzed

Single phase analysis program

Specifications

Function	Type 2010A	Type 2030
Range of Measuring Voltages	AC 80V~300V	(3P3W) AC 250V~ 520V (3P4W) AC 150V~300V
Input frequency	50 / 60Hz	50 / 60Hz
Display of Voltages	-	Phase to Phase / Phase to Ground
Sampling Time	2/5/10/15/20/30/60 sec/min(14 types)	
Accuracy	±(0.25% rdg.+2digit) at 23℃	
Measured Location ID	ID No.(8 Digits), store 30 IDs	
Data Storage	Possible to record 16 Months at 30 min Sampling Time	
LCD Display	3.5" Graphic Color TFT LCD	
Data Interface	USB, USB Host	
Operating temperature	-20℃~40℃	
Dimension (mm)	163(L) × 100(W) × 45(H)	
Weight(g)	480	550
Patent	10-0313830, 10-0339121	10-0528606, 10-0581261

Digital Recorder(Type 2030)

Three Phase

Applications

It is a recording device that can check the real-time voltage fluctuation status of the three-phase voltage supplied to industrial power and the voltage unbalance rate for each phase according to the voltage drop for each phase.
The measurable period can record and analyze power failure and voltage fluctuations for up to 16 months.
Since the voltage status of each phase is measured by dividing the three-phase three-wire (3P3W) and three-phase four-wire (3P4W) wiring method, The actual three-phase voltage is displayed as a graph, and recorded data immediately at the site can be checked on the LCD screen right away.

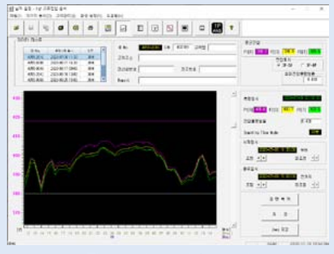
Features

■ Recorder

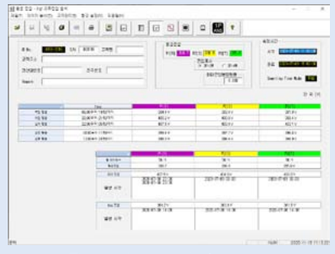
- Special voltage detection probe that can prevent the risk of electric shock during measurement
- Easy fastening by adopting Magnet Probe at the connection part of breaker lead line
- Measurement location identification number (ID) and voltage for each phase are displayed on digital and graphic screens in real time
- Check the maximum voltage, minimum voltage, voltage unbalance rate, etc. of the stored data on the color LCD screen.
- The actual voltage can be recorded as the three-phase voltage can be divided into three-phase three-wire and three-phase four wires.

■ Analysis program

- Designed in a standardized form for analysis by item selection
- Analysis load unbalance by analyzing voltage unbalance rate for each phase
- Analysis of voltage fluctuation status for each phase, power failure, etc.
- Analysis and output of average value of measured voltage and voltage exceeding upper and lower limit, number of time of defective phase and reverse phase for each hour, hour of power failure, hour of recovery and etc.
- Prevent electric accidents in advance by analyzing 3-phase unbalanced voltage



Three-phase data graph



Three-phase analysis program

Accessary

Soft Carrying Bag

USB Memory Stick

USB Cable

Smart Phase Finder System(Type 2400S)

2010 Geneva International Invention Patent Exhibition, Gold Award

Applications

It is a phase detection system that can accurately determine the absolute phase (A, B, C standard phase) of a three-phase distribution line regardless of the measurement location. The server manages standard information data and shares standard information between the host and phase finder using the Internet and wired/wireless telephone networks. In the field, through the distribution automation system and IoT-based information sharing of the phase information of the power facility that is databased with mobile devices, the unbalanced load on the three-phase distribution line is resolved, thereby remarkably improving the power loss and distribution automation facilities (TR, FRTU, DCU, AMI, Etc.) can be used.

Features

- System configuration: Host, Phase Finder, Phase Detector, App, other Accessory.
- Standard identification of distribution line by SS Host and detection of overhead line (extra high voltage) load current.
- Easy to hold and carry , light & small structure design.
- The progress of the measurement procedure is composed of an LCD screen so that anyone can easily use.
- Phase detection detector and finder of distribution lines share information by wireless communication.
- Wide range of data communication compatibility such as mobile phone, wired/wireless communication, RF, Bluetooth, Internet using GPS.
- About within one hour the target phase can be detected and determined(found) even at the underground electric distribution line facility or indoor building.
- Absolute phase discrimination is possible in the state of a live wire regardless of voltage level from AC 100V to 40kV.
- High voltage detector is safe because it does not need grounding.
- Grounding is required for low voltage connection devices (Pad Switch, Socket, Pad Clip, etc.) that can be used simultaneously in the distribution network system.
- It is a structure designed to connect a hot stick to the phase detection probe, measurement is possible within 20m above the ground without additional support equipment.

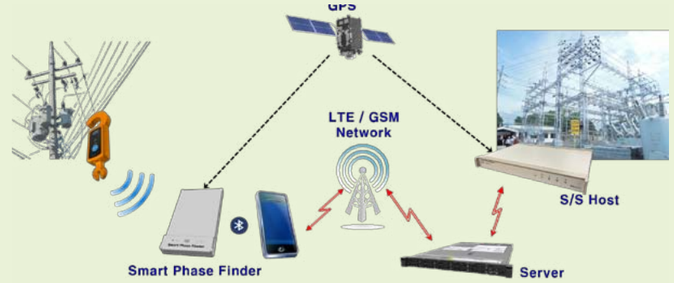
Function

Composition	Item		Description	Remark
Communication	Host ↔ Server		LTE/WCDMA/GPRS	World Wide application
	Server ↔ Mobile phone		Internet	Data communication cost
	Mobile phone ↔ Finder		Bluetooth (Data)	Noise removal
	Finder ↔ Detector		FM(GFSK)	Distance range
	Detector	Low Voltage	Phase	
		High pressure (including CT)	Phase and current	On-site check of load unbalance
Function	Enter key		Mobile phone keyboard application	Ease of use
	On-site video storage		Using Mobile phone camera	On-site certification and data management
	Measurement point storage capacity (ID)		100 IDs	Expandable
	System recovery		Server control	System operation stable
	Phase determination accuracy		120 ± 0.1% (Degree) or less	
	Phase measurement time		Within 3 seconds	
	Current measurement range		AC 0~ 500A	
	Case		Easy to carry	

Specifications

Function	Description	S/S Host (Type-2400S)	Phase Finder (Type-2401S)	Phase Detector	
				Type2402S(H/V)	Type2402B(L/V)
Electrical	Operating voltage	DC 12V	DC 3.7V	DC 3.7V	
	Measure voltage	AC 63.5/110V	-	30 kV	300V
	Measure current	-	-	AC 0~ 500A	-
	Storage capacity	-	100(Data/Image)	-	
	Power Consumption	10W	W	1.0 W	200 mW
Detection	Applied equipment	Underground PAD/ Overhead line/ Switch/ Feeder/ Transformer (Pad.Tr, in-building.Tr) / Low voltage line			
	Phase accuracy	-	120 ± 0.1%(Degree)	Voltage phase	
	Phase measurement time	-	〈 1 sec	-	
Communication	Type	Wire/wireless	BT(TRx) /RF(Rx)	RF(Tx)	RF(Tx)
	Distance range	World Wide	〉50m (BT)	〉50m(RF)	〉30m(RF)
Additional functions and HMI	Visual motivation	GPS	GPS	-	-
	Status indication	LED	LED	LED	LED
	Camera	Record site photos by linking with Mobile phone App		-	
	Mobile phone App.	GPS/BT/Camera function setting possible		-	
Appearance	Size(mm)	300x435x44	70x120x10	70x195x26	57x172x26
	Weight(kg)	3	0.2	0.42	0.22

System Diagram



Product composition

Substation Host (Type2400S)

Smart Phase Finder (Type2401S)

Phase Detector(For High Voltage) Type2402S

Phase Detector(For Low Voltage) Type2402B

Basic Accessories

DC Charger(Type-2406)

AC Charger(Type-2407)

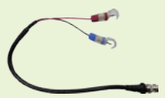
USB Memory & mini 5 pin Connector

Low voltage detector Accessories

Pad Socket(Type-2404B)

Pad Clip(Type-2405B)

Ground Cable



Piercing Cable(Type-2408B)

AC Adapter(Type-2409B)

Line Finder(Type 2430)

Applications

This device checks the connection status of the watt-hour meter and the indoor wiring for each household, and fundamentally blocks the incorrect wiring of the indoor wiring due to an error, thereby contributing to the prevention of civil complaints related to power bills and improvement of power quality. It has the advantage of greatly reducing manpower and costs by allowing one operator to check the connection of indoor wiring such as multi-family housing. It is possible to simultaneously check whether or not the wiring is matched during the construction of the internal wire construction or during the inspection before use, thereby increasing the satisfaction of construction quality and work efficiency.

Features

- Applying digital ID generation technology that transmits a unique signal from the tag and analyzes the entire signal received from the center.
- Equipped with automatic setting function for convenience of setting inspection equipment.
- Ensure practicality by allowing visual and auditory confirmation as a result of inspection.
- Ensuring convenience for device installation by adopting a magnetic tag for connecting indoor wiring.
- Easy to carry and install as a compact, lightweight, low-power device.
- Incorrect wiring can be checked on site.

Specifications

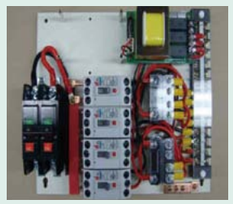
	Transponder	Tag
Measurement	Measure up to 9,999 households once (expandable)	ID No. Save and transmit/receive
Display	4-Digit 7-Segment x 2 Application	1-Led (status display)
Detection probe	Applying terminals for magnets	Rod Type
Function	Save incorrect wiring and Display	Incorrect wiring expression
Battery	Rechargeable Battery (Li-polymer : 600 mAh)	No power, No polarity
Dimension(mm)	150 x 80 x 46	47 x 27 x 9

Accessary

Smaet Tag

Detecting Probe

AC Adapter



AC to DC Adaptor(Type 2541~Type 2546)

Type 2541 5V2A

Applications

This product is a DC power supply used in electric products that convert AC voltage into DC voltage and operate precisely using the characteristics of DC. This is a power adapter for power supply to terminal equipment such as Setop Box and Internet Modem for TV used by three domestic telecommunication companies and general DC power products.

Features

In particular, this product has obtained safety certification in accordance with Article 5, Paragraph 2 of the Electrical Appliances Safety Management Act to be safe from electric shock, burns, arcs, fire, ignition, mechanical and chemical hazards, unlike adapters commonly used. A DC power supply designed to be suitable for communication equipment and general electric products as an excellent standby power reduction product that implements a low noise voltage and standby power reduction function at maximum load to maintain stable performance in the operation of terminal equipment.

Type 2545 12V2A

Specifications

Function	Description		5V2A		12V2A	
			Type2541(General)	Type2542(Premium)	Type2545(General)	Type2546(Premium)
Input	Rated input voltage		100-250 Vac			
	Operating range		90-265 Vac			
	Rated input frequency		50/60 Hz			
	Rated input current		0.5 A (Max.)			
	Power consumption(Noload)		0.5 W (Max.)			
	Primary cvercurrent protection		Ceramic Fuse, Time-lag, 3.15A max			
	Surge		±4kV	±6kV	±4kV	±6kV
			60s period, 10 times			
	Inrush Current		30A max (Input voltage 220Vac/60Hz)			
Output	Nominal DC output voltage		5 V		12 V	
	Rating load current		2.0 A			
	Rating output power		10 W		24 W	
	Line regulation		± 5%		± 5%	
	Load regulation		± 5%		± 5%	
	Rating load voltage range		4.75-5.25 V		11.4-12.6 V	
	Ripple and noise		50mV(p-p)		100mV(p-p)	
	efficiency		75% min	80% min	75% min	80% min
	Shell surface temperature (Ambient : 25℃)	80%. Load	50℃ max	45℃ max	50℃ max	45℃ max
		100%. Load	55℃ max	50℃ max	55℃ max	50℃ max
	Over current protection		2.4-3.5 A			
OperatingTemperature/Humidity			-5℃ ~ 50℃ / 20% ~ 85%			
Storage Temperature/Humidity			-5˚C ~ + 60˚C / 90% max			
Cable Length(m)			DC 1.8		AC 1.1 / DC 1.3	
Weight(g)			125		210	
Safety certification number			HH10319-20001	HH10319-20004	HH10319-20002	HH10319-20003
Registration of Broadcasting and Communication Equipments			R-R-Edt-TYPE2541	R-R-Edt-TYPE2542	R-R-Edt-TYPE2545	R-R-Edt-TYPE2546

Uninterruptible Power Supply(Type 2510)

Applications

This device supplies stable AC power of uninterrupted, constant voltage, and constant frequency against various disturbances of commercial power (power failure, instantaneous power failure, voltage fluctuation, frequency fluctuation, surge, etc.), and instantaneous voltage control for smooth operation of load It is equipped with a complete digital control logic for function and improved power protection, and It is an uninterruptible power supply that is equipped with serial communication and network communication so that monitoring and management of operation status through remote control on NMS can be easily performed.

UPS

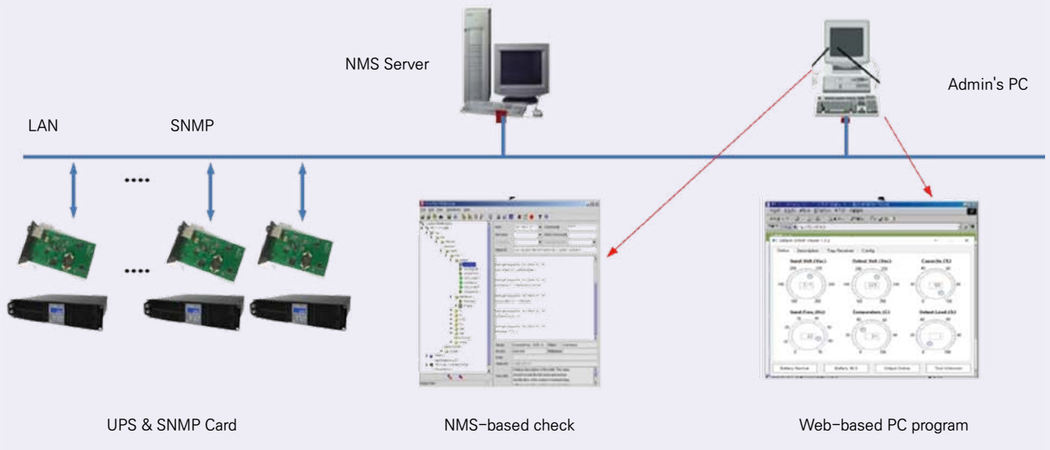
Features

- Auto By-pass function
- LCD / LED display window, 50/60Hz Auto Sensing
- Minimize noise with automatic fan speed control
- Self-test, DC start function
- Power failure/overload/low battery alarm function
- Load rate(%), load current(A) display
- Battery changeable while driving
- Stable output and high efficiency
- Remote operation monitoring using Internet Network
- BMS application (TBD) to determine when to replace battery (SOH)

UPS with battery bank

SNMP Card

[Network]



UPS & SNMP Card　　NMS-based check　　Web-based PC program

NMS system diagram

Specifications

Function	Item	Specification
General	VA(W)	1,000 (900W)
	Application Technology	On-Line
	Waveform	True Sine Wave
	Bypass	Auto & Manual
	Transfer Time	Less than4ms
Input	Voltage	220V ±15%
	Frequency	60Hz ±3Hz
	Current(max)	6.8A
	Distortion(THDi)	〈 3%
	Power Factor	≥ 0.99 (With Full linear load)
	Phase	Single (1Ø 2W)
Output	Voltage	220V ±1%
	Frequency	60Hz ±0.1%
	Crest Ratio	3:1
	Distortion	〈 3% (With Full linear load)
	Efficiency	≥ 90%
	Over Load Time	30 seconds less than 100~120%, 10 seconds less than 120~150%
	Phase	Single (1Ø 2W)
Battery & Charger	Number of battery	Built in and Outer Battery (Total 9EA)
	Type	Maintenance free sealed lead-acid battery
	Capacity	12V/9Ahx3ea(Ext. Batt. Bank 6ea)
	Rated Battery Voltage	36Vdc
	Backup Extension	Possible (3EA)
	Max. Charge Current	2.1A / Battery Bank
Function	Display	Real-time UPS and Major Parameters for Control LCDs, Switches and LEDs
	Communication	USB, RS232 and SNMP Card for Networks
	Protection	Over Current / Short Circuit, Over Temperature, Emergency Stop
Physical	Dimensions UPS[mm]	440(W) x 410(D) x 88(H) (Handleless)
	Weight UPS[kg]	14.7 kg
	Dimensions Battery Bank[mm]	440(W) x 430(D) x 88(H) (Handleless)
	Weight Battery Bank[kg]	20.1 kg
Environmental	Operating Temperature	0~40℃
	Humidity	20~80% (Non-condensing)
	Storage Temperature	0~50℃
	Noise Level	〈 50dB
	IP Grade	IP21
	Heating Value(BTU/h)	490
Safety Certification Number		XH100208-18001
Registration of Broadcasting and Communication Equipments		R-R-Edt-TYPE2510

Uninterruptible Power Supply(Type 2510)

Thermal Scope(Type 2600 / 2601)

Applications

A thermal Scope camera is a device that detects the amount of infrared (IR) radiated from an object from a distance and displays images in real time by classifying the temperature of each pixel by color. It is used as a method for diagnosing overheating conditions in the field of facility diagnosis and accident prevention maintenance.
In particular, power accidents can be prevented by diagnosing heat generation phenomena or deterioration of facilities due to overloading or poor contact, such as various power facilities (transformers, switchgear, insulators, lightning arresters, COS).
In addition, temperature measurements can be made easily in areas where human access is not easy, including distant objects or moving objects.

- Diagnose overheating due to overload of power receiving facilities or transformers.
- Check for overheating of electronic components on the PCB or at the junction of the distribution board.
- Heat generated by food temperature control and mechanical friction.
- Management of quality & process, Check the oil level in the tank, Machine equipment and mold temperature, The temperature distribution of the human body

ET-10 (Type 2600)

Features

■ **Thermal Scope ET-10(Type 2600)**

- Thermal image of 110,000 high-resolution (384×288) pixels and Fusion function of 1.3 megapixel real images
- Reduction of read time by indicating maximum, minimum and average temperature in digital value together with thermal pictorial image
- Voice recording of maximum 30 sec for each image taken
- Sleep mode and automatic power cut-off function (10min /30min /60min)
- Ergonomic design of compact size portable in use
- Built-in high-speed detection function with fast CPU operation speed

■ **Thermal Scope M8(Type 2601)**

- Made of Magnalium case, strong against impact.
- Practical and innovative design that fits in one hand like a mobile phone.
- Automatic gate function to protect optical system and electronic circuit.
- Analysis and editing by saving thermal images as videos.
- A 2 million-pixel digital camera is used to display clear real images and combined thermal images.
- Analysis of thermal image using analysis program and report output in Excel or Word format

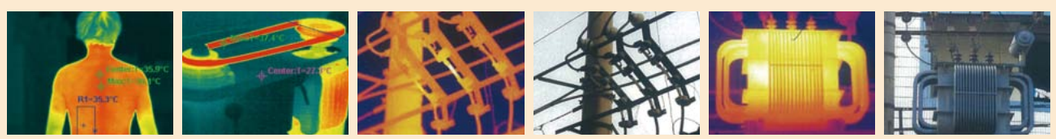
M8 (Type 2601)

■ **Thermal Analysis Software**

- Analysis of each temperature for each pixel of thermal pictorial image
- Working out and output of report for measured object
- Provision of systematic analysis form possible to make Database of thermal pictorial image taken

Specifications

Function	Item	ET-10(Type 2600)	M8(Type 2601)
Thermal Image	Detector type	Uncooled FPA module 384×288 Pixels, 25㎛	Uncooled FPA module 160 x 120 pixels, 25㎛
	Spectral Range	8~14㎛	
	Field of View	22 ° ×16 ° (Option 16°×9°)	20 ° ×15 °
	Focusing	Automatic or manual	
	Zoom	x1 ~ x10	x2
	palette	10	8
	Digital Camera	CMOS Sensor, 1280×1024 Pixels (1.3 million pixels)	CMOS Sensor, 1600×1200 pixels (2 million pixels)
Image Presentation	Display	3.5" TFT LCD with high resolution	2.5" TFT LCD with high resolution
	View finder	Built-in high-resolution OLED	-
	Video Output	VGA/PAL/NTSC	PAL/NTSC
	Infra Fusion	Visual and IR blending	
Operation method	Deviced Control	Touch screen, joystick, function button	Touch screen, function button, W/T wheel
	Remote Control	RS-232	RS-232, USB2.0
Measurement	Temperature Range	-20℃ ~ +600℃, (Option : -20℃ ~ +2000℃)	-20℃ ~ +250℃, (Option : -20℃ ~ +350℃)
	Accuracy	±2℃ or ±2%	
	Mode	Real and thermal image synthesis function point and area (maximum/minimum/average value), isotherm, line profile, maximum temperature automatic tracking, over temperature automatic alarm function	
	Emissivity setting	0.01~1.00	
	Measurement characteristics	Automatic calibration of measured values according to ambient temperature, distance, relative humidity, atmospheric transmission and external conditions entered by the user	
Image Storage	Type	2GB SD Card or 1GB built-in flash memory/JPEG	Removable 2GB Mini SD card & built-in flash memory/JPEG
	Voice Annotation	Digital voice storage for up to 60 seconds	
	Text Annotation	List Selected	Selected from preset texts or Customized
Live Video	Record	-	30 minutes in Mini SD card
	Measure	-	Auto, max/min temperature
Laser Locater	Classification Type	Class 2	
Interface	USB 2.0	Video data transfer to PC	Realtime image, video data transfer to PC
	RS232	Remote control of camera on PC	
Optional Lenses	telephoto lens	5.5°x4.7°/100㎜	7.6°x5.7°/30㎜
	wide-angle lens	33°x25°/16㎜	32°x24°/7㎜
Power System	Battery Type	Recharge Li-ion battery	
	Battery Operating Time	Over 2.5 hours continuous operation	Over 4 hours continuous operation
Environmental Specification	Operating Temperature	-20℃~+60℃	-10℃~+60℃
	Storage Temperature	-20℃~+60℃	
	Humidity	Operating and storing 10% to 95%, non-condensing	
Physical Characteristics	Size(mm)	186x106x83	154x69x45
	Weight(kg)	1.1kg(including battery and LCD Screen)	0.35kg(including battery)



AI Facial Thermometer(Type 2610)

AI+ ThermoScan

Applications

This device adopts a facial recognition algorithm to measure the high-precision IR temperature and process the ISP image, so it is a device that measures the temperature of the person's face without contact in a short time to check whether a high temperature has occurred. If high temperature is detected during measurement, it is displayed with an alarm sound and warning light. It is possible to detect whether a mask is worn, to distinguish between a real person and a photo, to select and operate various functions such as face recognition comparison, automatic access to outsiders, etc. It is a compact, lightweight, low-power device that is easy to install and operate in places such as religious organizations and educational institutions, individual stores and medical institutions, multi-use facilities, government offices and financial institutions.

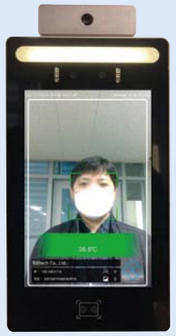
Features

- Store up to 50,000 faces as registered employees, etc.
- Recognition within 0.5 seconds / 0.6 ~ 1m face recognition (optimum distance 0.7m)
- Operation in low light and strong brightness, easy to discriminate with face recognition Auto Focus function
- Biometric identification between photos and people / temperature accuracy ± 0.3℃
- Small, lightweight, and low-power devices make it easy to use and install.

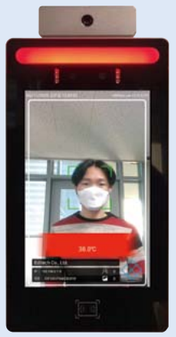
Specifications

Item	Specification
CPU	RK3288quad-core, ARM-A17, 1.8GHz
OS	Android7.1.2
Network	Ethernet
LCD / Touch	8" IPSLCD(2millionpixels) / electrostatic method
Memory	RAM : 512MByte ROM : 8 Gbyte
IR Sensor	Thermal infrared temperature sensor
Accuracy	±0.3℃
Sensing Distance	Within1m
Recognition Speed	⟨5 msec
Biometric Detection	Yes
Mask Detection	Yes
Abnormal Temperature	Alert sound not ification
Recognition Distance	0.6 ~ 1m(positiong uidance sound)
Network	One-Way 10/100 Base T, RJ45
USB	2.0
Speaker/Microphone	2W, 8Ω / Condenser type
RFID Card	ISO 14443-A, Credit Card
Operating Temperature/Humidity	0~50℃/ 0~90% RH (non-condensing)
Operating air pressure	700~1060 hPa
Power Consumption	10 W
Size(mm)	Display : 290 x 140 x 30, Stand : 1430 x 140 x 30
Weight(kg)	⟨ 1
Registration of Broadcasting and Communication Equipments	R-R-Edt-C000R-2610

AI+ ThermoScan



Normal body temperature indication



Abnormal body temperature indication

Live CT Test Set(Type 2700)

Applications

CT Ratio Error Tester can detect abnormal(bad) Current Transformer(CT) by comparing the 1st and 2nd Ratio Error values and its Phase Angle values on the live wire line. The CT used here are installed mostly for the low voltage customers. It is a measuring instrument that compares the phase angles of voltage and current to determine whether there is an incorrect wiring and whether or not to apply the CT ratio error.

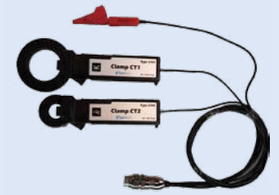
Features

- Accurate Ratio Error measurement while using on the live wire line, detecting & finding bad CT.
- Preventing wrong connections in the power meters from the beginning of its installation.
- The nominal Ratio Error value indication display and its data saving.
- Calculate the error rate by detecting the phase difference and non-error rate between the 1st and 2nd order CT for watt-hour meters..
- By detecting the non-contact voltage phase of the insulated wire, it fundamentally prevents the presence or absence of incorrect wiring of voltage and current.
- Measured data can be saved into USB memories or PC disk.

Specifications

Rated Primary Current / Secondary Current (8 Range)	75, 100, 150, 200, 250, 300, 400, 500 / 5A
Current Detection Range	① CT1 = 5.0~500.0A, ② CT2 = 0.001~5.000A
Current Accuracy	±(0.5% + 2dig.) of F.S.
Ratio Error Measurement Range	0~99.9%
Ratio Error Accuracy	±(0.5% + 2dig.) of F.S.
Phase Angle Measurement Range	0.1 ~90 o
The phase angle detection resolution	Less than 1 degree
Response time	Less than 1 second
Current measurement	True RMS
Voltage phase detection method	Non-contact
Display	TFT LCD (3.5") Backlight
Measurement	CT2 Measurement current, Ratio Error, The phase angle difference & Incorrect wiring, ID No. Measurement Date, Battery State
Operating power	DC 3.7V (Rechargeable Batt.)
Patent	10-1300789

Live CT



Clamp CT1 (Type-2701)
Clamp CT2 (Type-2702)

Accessary

AC Adapter

DC Adapter for vehicle

USB Cable

Cap Lantern(Type 7000)

Applications

This lantern device let people work freely even without holding the lamp in the dark or night time. The lantern is attached to the workers safety cap and is lighting the near distance objects so that the workers can safely and easily do their jobs.

- Used as lighting to ensure body safety in dark indoor workplaces.
- Checking purpose for underground power facility jobs like checking the distribution panel or indoor power distribution.
- High voltage warning when approaching to high voltage power facility or equipments.
- Fishing or climbing activity leisure tools.

Features

- Safety Cap or Ordinary Cap visor attaching mode-Fixation by sliding the lantern into the cap.
- Electric charging-mode battery gives comforts released from purchasing batteries.
- One time electric charge goes up to 10 hours continual use.
- Lighting angle degree controlled by saw tooth style manipulation.
- Automatic on/off function. (toggle for the automatic/manual operation)
- Warning sound if approaching to within 1m distance of high voltage area. (Safety can be secured during high voltage work with appropriate alarm intervals)
- Easy operation of ON/OFF switch even when using thick outdoor gloves.
- Good Durability and Practicability.

Accessary

USB Charger Cable

Specifications

illumination	More than 200lux at 30cm
Operating power	Li-Polymer(DC 3.7V/600㎃h)
Using time	10 Hours
Beep Sound	60dB (300㎜)
Measurement Distance	More than 1m at 13,200V
Operating Temperature	- 20℃ ~ 50℃
Dimension(mm)	43 X 85 X 15
Weight(g)	50
Patent	10-1064339

Hot Stick with Lighter(Type 7003~7006) Jumper Hot Stick(Type 7002)

Applications

When working to open and close COS(Cut Out Switch) or PF(Power Fuse) at night or in a dark place, the head of the control rod detects the high voltage of the line and automatically emits light, such as COS opening and closing without a separate lighting device. This is possible, and it can improve the safety and work efficiency of workers. Also, it is possible to detach the head part if luminescence type is not required.

Features

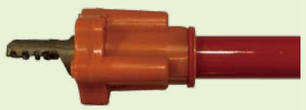
■ **Head (Option-luminous type)**

- COS insulating head emits lights for near distance lighting.
- It has powerful & dynamic super-power-saving light emitting circuit for long time lighting.
- Just one time battery-change can allow 240 times night time job possible. (on the condition that one time job costs 10 minutes time duration)
- Automatic light emitting available when used for detecting & alarming of high voltage risk on the live line jobs.
- Head part uses impact absorbing special rubber, and that rubber has also locking function when insulator is folded inside.

■ **Hot Stick**

- Control rod structure that is strong against torsion and has little curvature and play, so there is no shaking.
- Embossing hand knob used for preventing slippery.
- Enduring shock characteristic by special plastic materials.
- Elegant design of indication marks for eye-measuring distance on insulator rod.
- Good finishing materials on the rod connection parts for COS works.

Full length (Type 7003)



Detachable Luminous part

Specifications

	Type 7003	Type 7006
High voltage detection operating distance	luminous at a distance of 1m or more based on a 13.2kV (phase voltage) line	
Used Line Voltage	Less than AC 25 kV	
Operating Power of LED	Alkaline(AAA x 4 EA)	
Battery using time	40Hrs.	
Operating temperature range of luminous part	- 20℃ ~ 50℃	
Length	3m	6m
Weight	1050g	1990g
KOSHA Safety Certification No.	17-AV2BN-0004	17-AV2BN-0005
Patent	10-0895761, 10-0923400	

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EdiTech
Research & Development Center

601, SK V1 25-32, LS-ro 116beon-gil , Dongan-gu, Anyang-si,
Gyeonggi-do, Korea
TEL: 031-398-3289 FAX: 031-629-5478