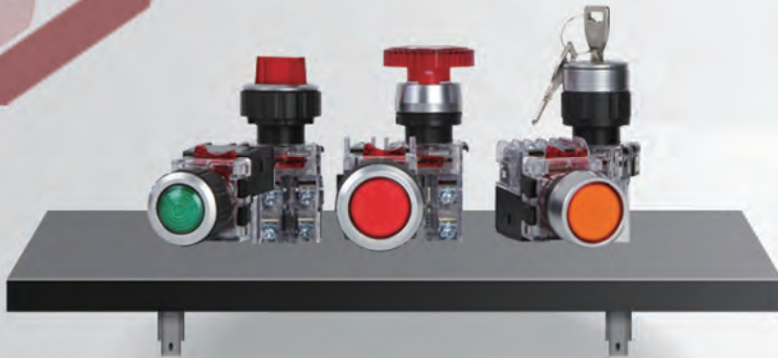


# Total Products

World Leader in Control & Measurement



## HX series Temperature Controller



## MR series Control Switch



# NEW PRODUCTS

## Programmable temperature & humidity controller

CE

Programmable temperature controller



### TH510 / TD510

- High-Definition Screen (5.7" 640 x 480 TFT-LCD)
- Easy to configure due to use of touch panel
- Maximum 100 patterns (Maximum 2,000 segments)
- Digital input: Maximum 32 contacts, Digital output: Maximum 32 contacts
- Remote observation function by using Smartphone
- 3 languages are available (Korean, English, and Chinese)
- Digital recording function
- Communication function (RS422/485)

Input output module

## Graphic recorder

CE



### GR200

- Touch panel 5.7" 640 x 480 TFT-LCD
- Universal input ( Thermocouple, RTD, VDC )
- 80M byte internal memory and support SD/SDHC memory card
- RS 485/422 communication ( Modbus, PC-link )
- Remote monitoring by smart phone
- Size : 145(W) x 145(H) x 173.5(D)

## Digital temperature controller



### HX series

- Multi-input ( Thermocouple 12 types, RTD 2 types, DC voltage 2 types )
- Heating control / Cooling control / Simultaneous heating - cooling control
- Multi-output ( Relay, SSR, Current output )
- Set value ( SV ) selection by contact input ( D.I )
- Retransmission output ( 4 - 20 mA )
- Fast sampling cycle 62.5 ms
- Installation depth 63 mm
- Heater break alarm
- Communication ( RS485 / RS422 )

## Control switch

CE



### MR series

- Snap-action contact unit
- Aluminum guard / Plastic guard
- Bright and durable due to use of LED light
- Module that can be divided by contact part and actuator

## Thyristor power regulator

### Slim type



#### TPR series

- Slim design
- Semi-permanent life expectancy
- Control mode selectable
- Movement by soft start

## Solid state relay

### Slim type

CE  
(Excluded HSR-3SL)



#### HSR series

- High current load control
- Input / output high insulation
- Built-in CR snubber, zero cross
- Heat sink body type with better operability and safety

## Power supply

CE



#### DPS series

- 35 mm DIN Rail Installation method
- Low output voltage fluctuation rate
- Low heating due to high efficiency
- DC OK Signal Relay Output Built-in
- Protection function against overcurrent, overvoltage, and overheating
- Various products from 15 W to 240 W
- Input voltage: 100 – 240 V Free Voltage or automatic selection of 110/220V

## Power supply

CE



#### TPS series

- Maximize the effect of protection against heat with using the Aluminum case. (30 W - 450 W)
- Output voltage adjustable volume built-in
- Free Voltage 100 - 240 V AC (15 W, 30 W, 50 W, 75 W, 450 W)
- Inrush Current Limit Circuit built-in
- Over current, Over voltage (except for 15 W), output short circuit, and overheating protection function

# TOTAL PRODUCTS

## Temperature controller / Recorder

Digital Temperature Controller



TH510



TD510



TH500

CE



TH300

CE



TD500



UX100

CE



MC9

CE



NX series

CE (HX4)



HX series

CE



DX series

CE



KX series

CE



AX series

CE



BR6

CE



ED6



HD6



RS6

CE



SM100



HY series



DF series



AT6

AT3

BK3

CE



PX series



NP200

NP100



BK6-M



TP3



HN100

Analog Temperature Controller



HY-5000



HY-4500S



HY-3000



AF1



AF1 (SUB)



ND4



HY-1000



HY-2000

Graphic Recorder



RT9



GR200



GR2000

Others



D55



EM310



FS-3A



HY-ER3



CV300



HMCE-103



HMCW-103

## Counter & Timer / Panelmeter / Multi pulsemeter

Counter & Timer

CE



GE-P series

CE



GE-T series

CE (GF4/GF7)



GF series

CE



LC1

CE



LT1



TT4



TT7



TF4



TF4N

CE



LF4N



T21

CE



MA4SD

MA4N

CE



T48N

T38N

CE



T57NE

T57NP

CE



T62NE

T62NP

CE



TF62DE

TF62DP

CE



LY4

LY7

# TOTAL PRODUCTS

## Panelmeter



MP series

BS series

MP6-H MP3-H

WM3

BA1

HLP1

## Multi Pulsemeter



RP series

BP6

LP1

## Proximity sensor / Photo sensor / Rotary encoder

### Proximity Sensor



UP series (8S/12S/18S/25S/30S/40S)

CUP series (18R/18RP/30R/30RP)

UP-25F series



UP series (8RD/12RD/18RD/30RD/8RM/12RM/18RLM/30RLM)

### Photo Sensor



PL-D2B

PTX series

PZ1 series



PN series



PR series



PLD series



PU series



PAS series

PAN series



PEN series



PE series

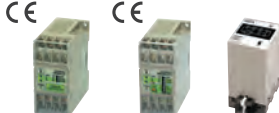


PFD series



PFB series

### Sensor Controller



HPAN-C7/C7W

HPAN-CT7

HPA-12

### Rotary Encoder



CE (HE30B / HE40B / HE50B / HE40H / HE60H / HE40HB / PSC)

HE20B/30B/40B/50B/68B

HE40H/60H

HE20HB/30HB/40HB

PSC

## Thyristor power regulator / Solid state relay

### TPR



TPR-2N (25/35 A)

TPR-2N (50/70 A)

TPR-2SL (40/55/70/90/110/130/160/200 A)

TPR-3N (30/50/60 A)

TPR-3N (70/100 A)

TPR-3 (70/100/150/200/250/320/500 A)

TPR-3SL (40/55/70/90/130/160 A)

### SSR



HSR-SG (15/25/40 A)

HSR-SLD (15/25/40 A)

HSR-2SL (25/40 A)

HSR-TG (15/25/40 A)

HSR-3SL (15/25/40/130/150 A)

## Power supply (SMPS)



DPS series (15 / 30 / 50 / 75 / 100 / 120 / 180 / 240 S)



TPS series (15 / 30 / 50 / 75 / 100 / 150 / 220 / 350 / 450 S)

# TOTAL PRODUCTS

## Power push button switch / Main switch / Cam switch / Mono lever switch / Hoist switch / Foot switch

**Power Push Button Switch**



HY-500 series

BE series

MAS series

**Main Switch**



**Cam Switch**

CCC (Excluded SQ4)



SQ4 series

SQ5 series

HY-255

HY-305

HY-MRK

**Mono Lever Switch**

CCC



LEL/LES series

**Hoist Switch**

CE, FCC, CCC



HY-1020 series

**Foot Switch**

CCC



HY-100 series

## Buzzer / Fuse holder / Terminal block / Control box / Cable connector

**Buzzer**



HY-256/306

HY-606(Q65)

HY-606N

HY-226MA/MD

HY-256MA/MD

HY-606MA/MD

**Fuse Holder**



HY F30 series

HY-F15 series

**Terminal Block**



HYBT series (10/15/25/35/60/100 A)

HYBT-15

HYT series (10/20/30/60/100/150/200/300/400/500 A)

**Control box / Cable connector**



HYC-M1/M2

HY-25/30 series

## Control switch / Combination display light

**MR series**

Aluminum guard (Ø22 / Ø25 / Ø30)

CE



Push button switch

Illuminated push button switch

Pilot lamp

Selector switch



Illuminated selector switch



Key switch



Emergency push button switch



Illuminated emergency push button switch



Melodies electrical buzzer

**MR series**

Plastic guard (Ø22 / Ø25)

CE



Push button switch

Illuminated push button switch

Pilot lamp

Selector switch

Illuminated selector switch



Emergency push button switch



Illuminated emergency push button switch



Melodies electrical buzzer

# TOTAL PRODUCTS

## AR series (Ø22 / Ø25)

CE  



Push button switch    Pilot lamp    Push button selectors    Selector switch    Illuminated selector switch    Illuminated push button switch



Key selector switch    pulsador de emergencia    Illuminated Emergency stop switch

## CR series (Ø25 / Ø30)



Emergency push button switch    Push button switch    Pilot lamp    Illuminated push button switch    Selector switch    Key selector switch    Selector push button switch

## SR series (Ø16)

CE



Emergency switch    Pilot lamp    Push button switch    Key selector switch    Selector switch    CD-S/R    CR-40

## Limit switch / Micro switch

### Limit Switch

CE  



M900 series    LM900 series    HY-LS800 series

CE  



ZCN-R500 series    HY-L800 series

### Micro Switch

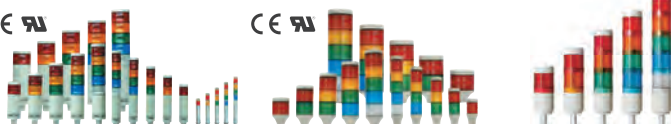


HY-700 series

## LED Sign tower / Turn light / Signal light

### LED Sign Tower

CE 



STL series (Ø25, Ø40, Ø60, Ø80)    STS series (Ø40, Ø60, Ø80)    STE series (Ø60)

### Sign Tower



STA series (Ø25)

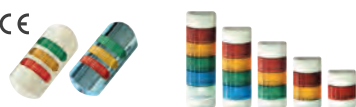
### Cube Tower Light



CTB-KBB    CTC-KBM

### Wall Mounted Light

CE



WME    WMS

### Turn Light



TLB series (Ø60, Ø100, Ø150)    T series (Ø84)

### LED Turn Light



TL100 series (Ø100)

### Signal Light

CE



SLB series (Ø70)    LT series (Ø84)

CE



RLA-WX    RLA-WXB

Always with our customers

## World Leader in Control & Measurement



### MAIN PRODUCTS

Temperature controller / Recorder / Counter / Timer / Panelmeter / Multi pulse meter / Proximity sensor / Photo sensor / Rotary encoder / Thyristor power regulator / Solid state relay / Power supply / Control switch / Combination display light / Power switch / Main switch / Cam switch / Limit switch / Micro switch / Hoist switch / Foot switch / Mono lever switch / Sign tower / Turn light / Buzzer / Terminal block / Fuse holder / Controlling box / Cable connector



Control switch

Control instrument

Photo sensor / Proximity sensor

Thyristor power Regulator

Sign tower / Signal light

※ Information in this catalog may change without prior notice for upgrade purpose.

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