LIGHTING CONTROL PANELS

Power it. Control it. Prove it.

These product lines serve the lighting control panel and the building around it. **The lines cover the 24 V control power and the switching for each zone, the protection and logic behind the door, and the metering on each circuit.** The manufacturers Dynamic Measurement and Control Solutions represents, on a line card built for the way you design, with an application engineer on the phone before the spec locks.

Power it

Energy in, converted, moved. And the switching and protection that keeps it safe.



PREMIUM PSU

24 V straight off a 277 V circuit

Premium's single-phase DIN-rail supplies take **85 to 277 VAC in**, so the panel's 24 V comes straight off a 277 V lighting circuit. Redundancy modules OR two supplies with under 40 mV of drop. N+1 control power does not cost its own heat.



PREMIUM PSU

The controller rides through the dip

A control-voltage supply with the battery charger and the changeover built in and **Ethernet reporting to the controller**. A mains dip is a logged event, not a controller restart. Alarm contacts report mains failure and battery low. From the shop that builds 50 kW rail converters.



PREMIUM PSU

A short on one run, one channel off

Runs to switch stations and sensors are long, and a short at the far end may not trip a thermal-magnetic breaker fast. The EFC electronic fuse protects **four 24 V channels of up to 5 A each** and switches off only the channel at fault. A DC-OK contact reports the trip, with a remote reset.



CELDUC

Zones that switch without a click

Occupancy control can switch a zone many times a day. A solid state relay has no contact to wear and makes no click in the room. Celduc covers **4 to 125 A, single and three phase**. An SSR passes a small leakage current when off, so confirm the LED driver stays dark with it.

Control it

Commanded, coordinated. The protection for each branch, and the logic behind the door.



IMO

Protection and contactors for every zone

UL-approved miniature circuit breakers, RCBOs and surge protection for the lighting branches and the control circuits. Contactors with a **3 W sealed coil** run cool when a panel holds a row of them in all night. Up to 5-year warranty on electromechanical components, same-day dispatch from US stock.



IMO

The zone logic behind the door

iSmart smart relays and XGB PLCs run the zone, override and sensor logic with **license-free programming**. Industrial relays, timers and cam switches sit beside them, and iView HMIs go on the door. IMO has made panel components since 1972, with a US office and US stock.

Prove it

Proven, not assumed. What each circuit draws, landing where the building team already looks.



SATEC

Every lighting circuit, one device

BFM-II meters **up to 54 single-phase or 18 three-phase circuits** from one DIN-rail unit, against two voltage sources. Each zone gets its own kW and kWh, and channels can be added after commissioning. It stays in after the study, where a thirty day logger goes home.



SATEC

Accuracy is decided on the drawings

The CT, its burden, the leads and the wiring decide as much of delivered accuracy as the meter. HACS sensors feed the meter directly, **one CT in the chain instead of two**, no shorting blocks, and split-core windows to 160 by 80 millimeters at 3,000 A clip on around the bus bar at the main service of a building that is already running.



BRAINBOXES

Switch and sensor states on the network

A wall switch, an occupancy sensor contact or a photocell is a digital input. Remote I/O picks them up at the panel and presents them as **Modbus TCP devices the building system polls**. The lighting controller is never opened. The DIN-rail units run from any DC supply up to 30 V already in the panel.



BRAINBOXES

The older controller already has the port

A lighting controller with an RS-232 or RS-485 port goes on the network through it. An Ethernet-to-serial unit keeps **the same COM port** the software on the PC already uses, so nothing in the programming changes. Brainboxes has designed and built its own hardware in Liverpool, England, since 1984.

Foundation

Looks simple. Fails first. Where the schematic meets the panel.



CONTA-CLIP

Hundreds of landings, marked in the shop

PPVK push-in distribution blocks give over 150 connections per 10 centimeters of rail, by Conta-Clip's own figure. Orange, red, blue and white pushers tell the 24 V, the 0 V and the field supply apart. TTPCardMAX prints the markers in the shop, **up to 5,500 an hour**.



WISKA

Junction boxes built for outside

COMBI junction boxes to IP66, UV and ozone resistant, quarter-turn lids, membrane entries that need no locknut, for the pole, the parking structure and the roof. Glands, venting and the Brace conduit system around them, from a company that started on ships in 1919.

Lighting is its own metering line

California's energy code asks for lighting to be measurable as its own load type: in aggregate on services over 50 kVA, and by floor, type or area over 250 kVA. New services and major alterations are the trigger.

An SSR has a heat budget

Figure roughly one to one and a half watts dissipated per amp conducted. If there is no thermal budget left in the panel, an electromechanical contactor may be the better part, and we carry those too. An SSR is not isolation and not a disconnect.

Challenge us

After 30-plus years in the industrial hardware space we know these products, on our line card and off it. Bring us your most stringent or most mundane requirement. If one of our product lines fits, we give you a direct connection to the manufacturer, the right engineer or department, and we stay on your request until it is answered. If it does not, we know someone who will.

Talk it through at the design stage

If any part of this card raises a question mid-design, whether that is the control power, the switching for each zone or the circuit metering, that question is exactly what we are for. A short technical conversation before the spec locks usually surfaces the options a datasheet does not.

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THE MANUFACTURERS ON THIS CARD

Premium · celduc · IMO · SATEC · brainboxes · CONTACLIP · WISKA