

LIFE SCIENCES, MEDICAL AND LABORATORY EQUIPMENT

Power it. Control it. Prove it.

The electrical line for the instrument, the device and the process skid: the heating and power that hold a setpoint, the interface that takes the disinfectant, and the data path that keeps a validated controller validated. The manufacturers Dynamic Measurement and Control Solutions represents, organized 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.



CELDUC

One degree, held, without a click

Solid state relays for dialysis and incubator heating, autoclaves and analyzer thermal blocks, switching at the zero cross **fast enough to hold a zone within a degree**, with no contact to wear and no click in the room. PCB-mount and four-leg relays, EMC-optimized versions, and relays that report their own load status, from the range Celduc lists for EN 60601-1 equipment.



CELDUC

Beds, chairs and doors, sensed without a moving switch

Magnetic proximity and reed sensors for door and position detection on a medical refrigerator, a bed or an analyzer drawer: sealed, **nothing to wear on the outside**, stainless versions for the wet bench. Multi-motor PCB relays for the bed and the chair from the same catalog.



PREMIUM PSU

Clean AC, galvanically separated

TDS and TDX converters deliver single or three-phase AC with **galvanic separation from the mains**, the supply for metrology, laser and lab loads that should not see the building's noise; 3 kVrms isolation is standard across the line. A DC UPS with Ethernet reporting keeps the controller through a dip. From a shop with 900 custom designs behind it.



WALTHER

Connect, disconnect, lock out: one part

The receptacle and the switch are one unit at the skid, the autoclave or the bench: the circuit **cannot be made or broken under load**, and the handle takes a lock, IP67 where the water hits. Distribution assemblies with breaker protection built in, one feed to the bench row. Series II pin and sleeve, 20 to 100 A, UL Listed and CSA Certified together.

Control it

Commanded, coordinated. The interface that takes the disinfectant, and the skid panel.



GETT

Keyboards that survive the disinfectant

Glass capacitive keyboards with a flat, smooth surface that takes a **twice-daily disinfectant wipe** at a pharmacy counter, sealed keyboards to IP68, washable silicone keyboards, touchless optical switches. InduSmart panel PCs with an IP65 front and an NFC reader for operator login and traceability.



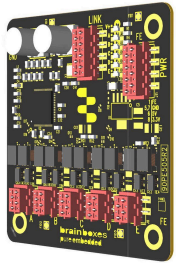
IMO

The skid panel

iSmart smart relays and XGB PLCs with **license-free programming** for the skid and the utility panel, Jaguar drives for the pumps and the air handler, UL-approved miniature circuit breakers, RCBOs and surge protection for the auxiliary circuits, iView HMIs on the door. Same-day dispatch from US stock.

Prove it

Proven, not assumed. The instrument on the network, the validated controller untouched, and the supply recorded next to the process.



BRAINBOXES

Ethernet inside the instrument

Board-level switching the size of a paperclip, designed into the enclosure instead of bolted on. One OEM built it into a flow controller for wafer-fab gas delivery: **113,000 power cycles, zero failures**, and a ten-year availability commitment behind the part number.



BRAINBOXES

Instruments onto the network; LabVIEW keeps working

Ethernet-to-serial units install as a **local COM port**, so LabVIEW, MATLAB and the VIs you already have keep working when the instrument moves from the bench PC to the network. RTD and thermocouple modules put bath and block temperatures on the same network.



BRAINBOXES

Cameras and sensors on one cable

PoE gigabit switches on the DIN rail power the inspection cameras and sensors from the switch port: **one cable per device**, no AC adapters in the vision cabinet and one fewer supply to qualify. Remote I/O beside it presents states and counts as Modbus TCP without touching the qualified controller.



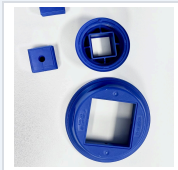
SATEC

Sags recorded, not remembered

PRO Series: a Class 0.2S revenue meter and a Class A Edition 3.1 power quality analyzer in one instrument. Sags, swells, interruptions and unbalance logged with their time and depth, so **the analyzer that dropped out at 03:10 has a cause on file**. AC and DC on the same platform, DC to 1,500 V.

Foundation

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



CONTA-CLIP

Cable entry for the GMP machine

KES entries in signal blue with an **elastomer built to FDA food-contact requirements**, a flat visible face with no dirt pockets, up to 32 conductors sealed to IP66, for the pharmaceutical and packaging machine.



CONTA-CLIP

Validated cable, connectors on

KDS split entry passes a pre-terminated, tested cable through the enclosure wall with the connector on, sealed to IP66, so the harness that was qualified is the harness that ships. WISKA glands and junction boxes for the utility rooms.

A data layer beside the controls

Brainboxes sits outside the control loop and moves information up to MES, historians and dashboards without interfering with machine operation. Anything deterministic, safety rated or inside the loop stays with the controller vendor's I/O.

Standards are datasheet-first

A listing or a standard on a specific part is confirmed on that part's datasheet before it goes on your drawing. Where a supplier's page names a standard and the datasheet does not, we treat it as unconfirmed and say so.

Where we will say no

Anything deterministic, safety rated or inside the control loop stays with the controller vendor. A relay that reports its state is a reliability feature, not a rated safety function. We do not represent enclosures, cleanroom air handling or lighting. Listings are confirmed on your exact configuration when we quote it.

Talk it through at the design stage

If any part of this card raises a question mid-design, whether that is the heater relay, the keyboard or the instrument network, that question is exactly what we are for. A short technical conversation before the spec locks usually surfaces the options a datasheet does not.

Jeff Weseloh, Application Engineer
 Dynamic Measurement and Control Solutions
 (408) 780-9190 · jeff@dynamicrep.com

www.dynamicrep.com/process-life-science-solutions-reliable-power-control-connectivity

THE MANUFACTURERS ON THIS CARD

