

Reaktor™ DC-22 PDU

RF / RS-485



Product Overview:



Reaktor™ is a Patent-pending Plenum-rated Rack Mount, Din-Rail-Mount, or Wall-Mount low-voltage Power Distribution Unit for Somfy® SDN® motors & 485 six-port data hub with 22 motor ports and 2 non-powered BUS IN and BUS OUT ports for extending the 485-bus line to other PDUs, data hubs, or control system processors.

Reaktor™ can work with any Somfy® SDN® 24VDC low voltage motor.

A built-in Ammeter can show the amount of quiescent current and max current draw from all motors.



Technical Specifications:

- Input: 24 ~ 48 VDC, .5A (BUS IN RJ45)
- Rear Motor Outputs: 24 VDC (8Nm)
- Front Motor Outputs: 24 VDC (1Nm)
- Device ports: 24VDC (4-RJ45)
- Material: Powder coated steel enclosure
- Dimensions: (1.75 in. H) x (8.51 in. W) x (10.5 in. D)
(44.5mm H) x (215.9mm W) x (254mm D)
- Maximum Wiring Distance
 - Rear motor ports: Up to 100m per motor port.
2, 4 or 5 position wire with 12AWG for power
 - Front PDU ports: Up to 50m per motor port.
UTP with minimum 23AWG
 - Front device ports: Up to 50m per device port
- Operating Temperature Range: 0~70°C (> 40°C de-rating)
- Shipping Weight: 8.5 lbs. [3.87kg]
- Indoor use only



PDU Options:

- Optional Ammeter gauge orientation 12, 3, 6 or 9 o'clock
- Optional Wall-Mounted 16"x12"x4" enclosure with Lid
- Optional 5.08pitch screw down removable Terminal blocks
- Optional PDU vertical and horizontal joining



Features summary:

- Enables power for 22 ports
- Built-in 6-port 485 Data Hub
- Works with All Somfy® SDN® Motors
- Certified IEC 62368-1 & CB 60950-1
- Meets USA EISA 2007
- Meets Energy Efficiency DOE Level VI
- Meets Code of Conduct Version 5 Tier 2
- Over Current Protection
- Over Temperature Protection
- EN61000-4-2: Air discharge: $\pm 15\text{KV}$, comply with IEC 61000-4-2, meet criterion A
- EN61000-4-3: 80~1000MHz, 3V.m, 80%AM(1kHz), meet criterion A
- EN61000-4-4: Impulse: $\pm 1\text{kV}$ applied to L,N, meet criterion A
- EN61000-4-5: $\pm 1\text{kV}$ applied differential mode, meet criterion A
- RS-232 port for integration with Bond via Optional FLEX IP
- Can auto program keypads and RF remotes and make groups
- Can also set Limits on a single Somfy® SDN® motor in case no limit tool is onsite.
- Includes a FREE Limitator LM-1 Limit Setting tool and works with the Modern Atomics Configuration motor configuration software



Modern Atomics Configurator V0.1

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CEDIA MEMBER

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RF / RS-485

Connections & Indicators:

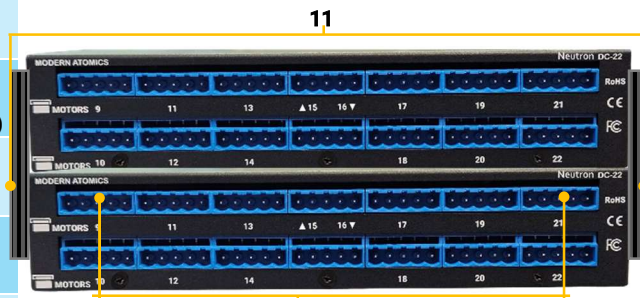
ELEMENT	DESCRIPTION
1	Ammeter Indicates current Amperage Output from [0~22] A @ 24VDC
2	DEVICE PORTS 6-485 Devices-Keypads/RF RCVERS
3	485 BUS IN PORT DC INPUT / System expansion & 3 rd Party Control Processor Port
4	FRONT 485 MOTOR PORTS 8-485 Motor Ports (2Nm max)
5	Meter Calibration Voltage Meter Calibration Control adjust with flathead screwdriver
6	RESET SWITCH Press to test or perform warm restart and Hold to Hibernate
7	ESM STATUS GREEN=Charged, Amber=Need Charge
8	485 BUS OUT PORT Non-powered / System expansion & 3 rd Party Control Processor Port
9	NFPA Plenum Rated Enclosure Can be mounted inside Air-Return spaces when using Plenum rated motor and data cables (Not included)
10	5.08 PITCH TERMINAL BLOCKS 5 Pos 14 Removable screw-down Motor Port Terminal Blocks for up to 12AWG wire & upto 100m(8Nm max)
11	NFPA Plenum Rated Enclosure Can be mounted inside Air-Return spaces when using Plenum rated motor and data cables (Not included)
12	5.08 PITCH TERMINAL BLOCKS 5 Pos 28 Removable screw-down Motor Port Terminal Blocks for up to 12AWG wire & up to 100m 8Nm max
13	TEST/PROG KEYS Used to test motors and create groups and prog keypads and RF remotes
14	ECO MODE Turn on and off ECO mode



FRONT VIEW



REAR VIEW



CONNECTOR OPTIONS

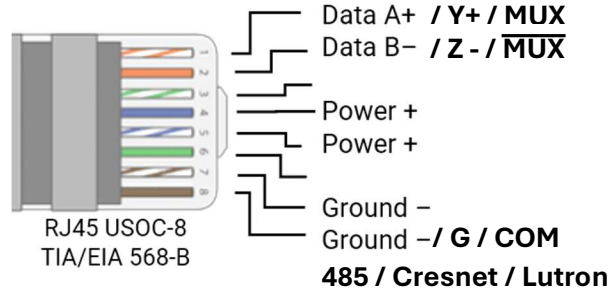
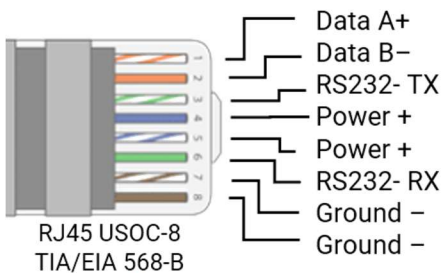
5 POSITIONS

SOMFY / 485



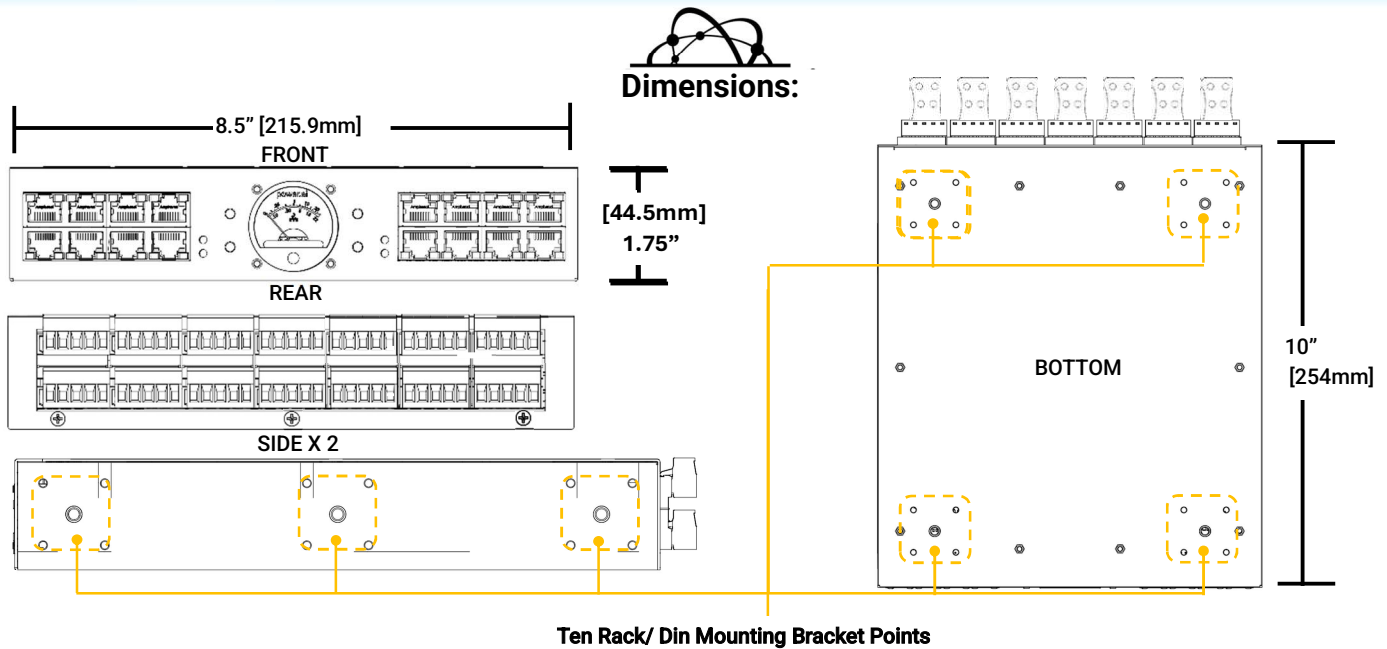
Motor/Device Cable pinouts:

[2] BUS OUT - PORT [3/7] BUS IN / MOTOR PORT



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Compatible Devices:

485 DEVICES:

Any Somfy® SDN® MOTOR

Any Somfy® RTS® Keypad or remote

Any Somfy® SDN V2 device

Any Bond® Remote or Bond Bridge Pro with Flex IP

Modern Atomics TRO.JAN Hub

Modern Atomics 16 port data hub

Modern Atomics Rf Transceiver

Modern Atomics Tokamak

Modern Atomics Limitator LM-1

Horizontal stack may require optional din rail kit

LONG and MID Rack Ears and 1RU JOINER KITS NOT INCLUDED & sold separately

Reaktor is not a Lutron® or Crestron® approved power supply. Reaktor does not qualify as a Somfy® Power Distribution Device for the Somfy® UL Listing as a Shade Operator.

Included in ALL Versions

(1) PDU

(14) 5.08 pitch Terminal Blocks

(14) 3" Wire ties

(1) Passive PoE Injector with AC Cable

FC Tested to Comply
With FCC Standards
FOR HOME OR OFFICE USE

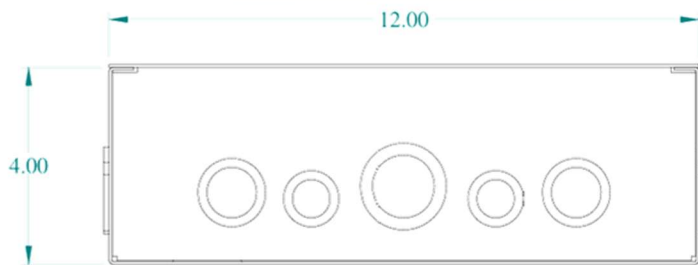


Specifications are subject to change without notice

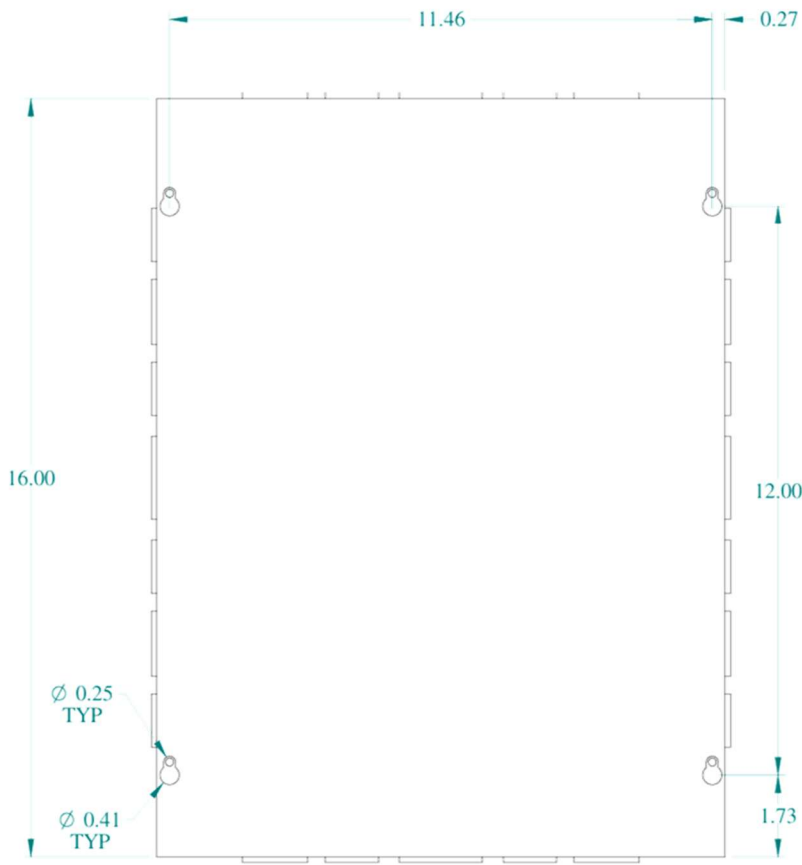
Reaktor™

RKT-DC-22

Optional Enclosure Dimensions:

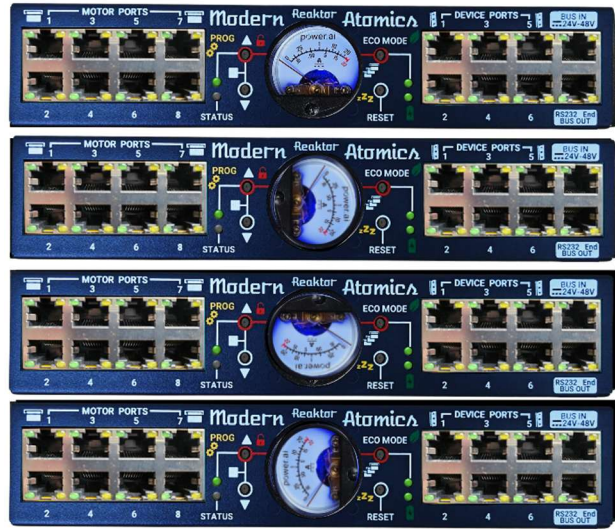


FRONT VIEW



TOP VIEW

OPTIONAL GAUGE ORIENTATION:



12 O'clock
DEFAULT

3 O'clock
OPTION

6 O'clock
OPTION

9 O'clock
OPTION

MODEL SKU OPTIONS:

PART NUMBER	MOTOR PORTS	TYPICAL MOTOR TYPE	TYPICAL BRANDS	VOLTAGE OPTIONS
RKT-DC-22	22	485	Somfy® SDN®	24