### Reaktor™ DC-22

# **Product Overview:**

Reaktor™ is a Plenum-Rated Rack-Mount, din mount, or wall-mount low-voltage power & 485 data distribution device with 22 motor ports and 6 device ports. Each rear motor port can power motor(s) up to a max. of 4Nm Each front motor port can power a motor up to a max. of 2Nm. A single unit can support up to a maximum of 22 DC & 36 total 485 motors.

The half-rack sized enclosure can be joined together to allow for up to 44 DC motors & 72 AC&DC motors per 1RU or can be stacked together inside a 20" wall box.

control device channels, including 485 wired devices or 485 transceivers for control from

Grow your system by adding other Reaktors, Stellarators & Colliders or 485 data hubs for unlimited 485 node systems.



**RS-485** 

Powered by

Obond



BEST&SHOW

WINNER

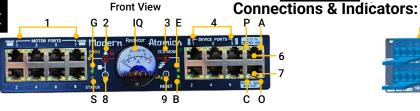


- Input: 24-48V DC, 1-2A
- Rear Motor Output: 24V DC (4Nm)
- Front Motor Output: 24V DC (2Nm)
- Device Ports: 12V DC
- Material: Powder coated steel enclosure
- Dimensions: (1.75 in. H) x (8.51 in. W) x (10.5 in. D) (4.3cm H) x (21.58cm W) x (24.81cm D)
- Maximum Wiring Distance
  - Rear motor ports: Up to 100m per motor port. 4 or 5 position wire with 12AWG for power
  - Front motor ports: Up to 50m per motor port. UTP with minimum 23AWG
  - Front device ports: Up to 75m per device port
- Operating Temperature Range: Ambient temp.
- Shipping Weight: 6.1 lbs. [2.77kg]
- Indoor use only
- 10-YEAR Transferable Warranty

## **Features summary:**

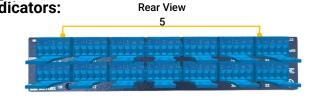
- Enables power for up to 22 RS485 DC motors per unit
- Motor control keys allow for testing / limit setting of motors at Reaktor
- Device port auto-programming enables fast commissioning of any Somfy®, SILABS, Lutron®, or Bond 485 or RF device
- Auto-Group creation at Reaktor or remote via any 485 or RF device
- One 485 broadcast alias translation per Reaktor
- Compatible with Bond Bridge Pro via 232 serial connection and compatible serial to IP interface INCLUDED
- Built-in Ammeter enables display of real-time connect motor current or quiescent current loads from 0.01 - 22 Amps
- ECO MODE enables removing all quiescent current
- Built-in Energy Storage Module (ESM-LiFePo4 phosphate) provides ultrahigh current at less than 01ms slew rate
- Reaktor duty cycle of several days to weeks without any energy harvesting enables user control of all shades and controls during power outages or rolling blackouts
- No Cobalt or any other conflict minerals





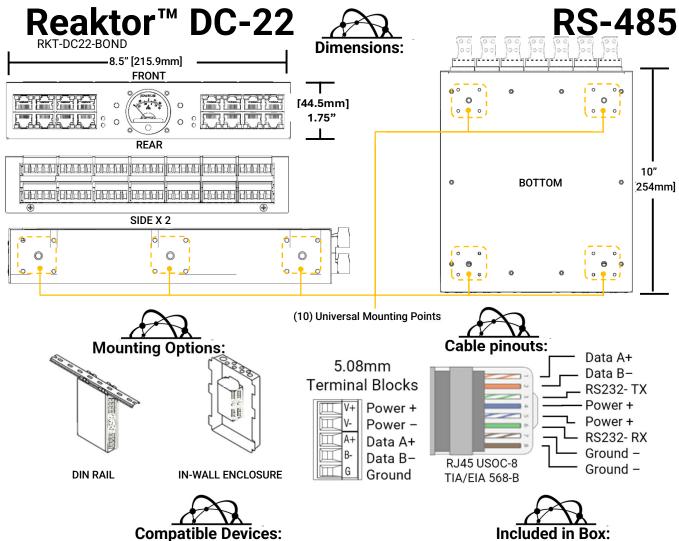
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		ELEMENT	DESCRIPTION
	1	Motor Ports	DC/AC motor port max ≤2Nm(DC)
	2	UP KEY	Send move to upper limit locally
	3	ECO MODE	Toggles ECO Mode / Create Group
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	6	485 BUS IN	Bus input/Harvest input 24-48VDC
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6	485 BUS IN	Bus input/Harvest input 24-48VDC
7	485 BUS OUT	Bus Output / RS-232 port
8	DOWN KEY	Send move to lower limit locally
9	RESET	Re(start) unit / Toggle Hibernation



LED	INDICATORS	FUNCTION ON	FUNCTION OFF
s	System	Keys locked -Green	Hibernate mode on
3	Status	Unlocked - Amber	flashing - sys. busy
IQ	Ammeter	Motor Power On	Motor Power Off
E	ECO MODE	ECO Mode On	ECO Mode Off
Р	POWER	Harvest Power On	No Harvest Power
Α	<b>BUS Activity</b>	BUS Data Activity	No Data on BUS
G	PROGRAM	Group Mode	User Mode
В	ESM	Normal = Green	Wink = Harvesting
С	RS-232	Ready = Green	Flash = Data Act.
0	End of Line	End of Bus =Yellow	EXT BUS present





### **485 DEVICES:**

485 Decoflex® keypads (V1 and V2)

485 RF Receivers/Transceivers from Somfy® (V2 only) and SILABS®

485 CODECS / DATA HUBS from Somfy® and SILABS

RF DEVICES: Via RF Receivers/Transceivers from Somfy® (V2 only) and SILABS®

Any Somfy® RF remote, wall switch or sensor

Any Lutron® Pico® Remote

Any Bond® remote, wall switch, or sensor

#### **485 MOTORS:**

All Somfy® 485 DC and AC Motors



- (1) Global Cache PoE flex & Cable
- (1) Reaktor PDU
- (14) 5.08 pitch Terminal Blocks
- (14) 3" Wire ties
- (1) 2m CAT5 Cable
- (1) 24VDC Passive DC Injector
- (2) Universal Rack Ears
- (2) Universal Din Rail Brackets with stop
- (1) 3' AC Cable for PoE Injector
- (4) #10-32 Rack Screws
- (10) M3.5 Universal mounting screws

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

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