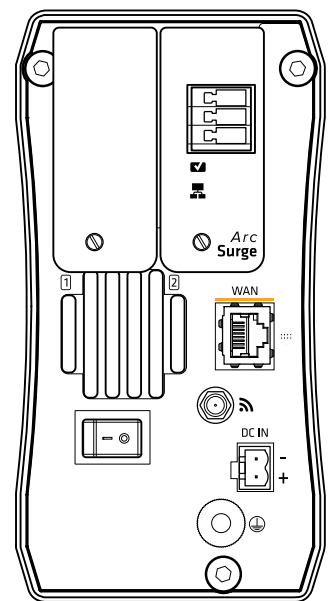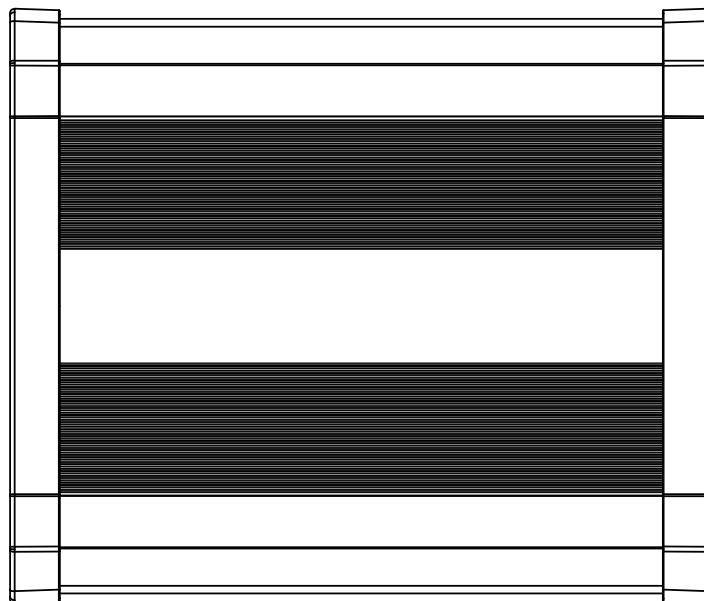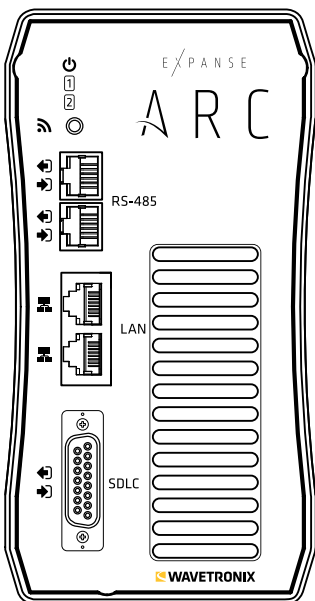# 2-sensor DC cabinet interface device

Part of the Expanse system, the Arc DC is all about convenience—providing DC power, surge protection, and communications for up to two sensors. Multiple Arc DCs can be placed on a single Ethernet network so that, through the Expanse software, you can see and configure all the sensors in your system right from your computer.

■ Puts all connected sensors on your Ethernet network, letting you access them from any connected computer via the Expanse software
■ SDLC port for communicating with compatible controllers
■ RS-485 and Ethernet connections for onsite configuration and connection to other cabinet devices
■ Accepts DC power, and passes that power on to up to two sensors
■ Protects cabinets from surges on the sensor cable

■ Arc Surge field-replaceable surge cards let you quickly get the device back in top condition after a surge event
■ Can be set on a shelf or mounted on a cabinet wall or 19-inch rack

DC Arc technical specifications

Physical properties
- Weight: 2.6 lbs. (1.2 kg)
- Dimensions: 8 in. × 3.4 in. × 6.5 in. (20.3 cm × 8.6 cm × 16.5 cm)
- Included components
    - DC pluggable terminal block
    - Ethernet cable
    - Blank field replaceable surge card cover

Operating conditions
- Ambient operating temperature: -29°F to 165°F (-34°C to 74°C)
- Humidity: up to 95% RH

Mounting
- Shelf-mount
- Mounting brackets available for purchase
    - 19-in. rack mount bracket (2U height)
    - Side-mount strut channel bracket
    - Top/bottom-mount bracket

Connections
- Power and surge
    - DC input terminal block
    - Power switch on back of device turns off power to device
    - Surge ground lug on back of device for connecting to earth ground
    - Arc Surge field-replaceable surge cards protect the device from surges coming in on the sensor cable
- Ethernet
    - 2 RJ-45 10/100 jacks on the front of the device for wired Ethernet communications to other Wavetronix devices, or for onsite configuration
    - 1 RJ-45 10/100 jack on the back of the device for wired Ethernet communications to customer network
- SDLC
    - 1 SDLC port on the front of the device for connecting to SDLC-compatible controllers
- Serial
    - 2 RJ-11 jacks on the front of the device for RS-485 communications
- Connections to sensor
    - Two slots on back of device for plugging in field-replaceable surge cards
    - Field-replaceable surge cards provide a spot for termination of sensor cables, as well as protecting the device from surges on that cable

Ordering information

DC Arc
102-0540

Optional accessories (sold separately)

102-0480 – Arc Surge

102-0509 – Arc with pre-installed Arc Surge

102-0537 – Arc Surge Expanse Link Spring Cage Connector Kit

102-0481 – Blank Cover for Arc Surge

102-0525 – SmartSensor Surge

102-0486 – Arc 19-inch Rack Bracket

102-0485 – Arc NEMA Side-mount Bracket

102-0487 – Arc Diamond Bracket

101-0463 – Expanse Link S Cable 5000' spool

101-0464 – Expanse Link S Cable 1000' spool

101-0465 – Expanse Link S Cable 500' spool

Contact us

801.734.7200
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www.wavetronix.com

Power
- DC power supply voltage: 10–28 VDC *
- Max DC current: 8.5 A
    - Supports 2 sensors (up to 25 W each)

Configuration
- Illuminated indicators show when data is being transmitted and received on the Ethernet, serial, wireless, SDLC and sensor ports
- ±5ppm real-time clock with super capacitor backup
- Supports time sychronization from GPS, NTP or real-time clock

* While the system works with supply voltages of up to 28 VDC, 24 VDC supplies are recommended; the excess is designed to allow some tolerance on the output of the supply.

Surge protection

■ Sensor ports surge immunity: IEC/EN 61000-4-5 level 4; must be obtained by purchasing an FRS card (102-0480)

Testing

■ Tested under FCC CFR 47, part 15, section 15.249
■ FCC certification on product label
■ FCC regulation–compliant for life of the sensor
■ Complies with the applicable standards stated in the NEMA TS2-2016 Standard
■ Passes manufacturer's test before shipping
■ Equipment labeling found on the bottom of the unit

Support

■ Extended support options available; contact a Wavetronix representative for more inoformation
■ Comprehensive user guide

Warranty

■ Five-year warranty against material and workmanship defect