

DD1000/SRM/2.4 DDAA1000/SRM/2.4

DISCRETE/ANALOG WIRELESS MULTIPLEXER-2.4 GHZ BAND



The Data-Linc Group DD1000/SRM/2.4 and DDAA1000/SRM/2.4 wireless multiplexers offer applications the ability to transmit 4-20 mA and/ or discrete signals without the cost or inconvenience of adding wires or additional devices.

The DDAA1000/SRM/2.4 combines an analog/discrete signal digitizer with Data-Linc Group's SRM industrial grade license-free wireless modems. The result is a simple to implement solution for I/O signal transmission.

Each DDAA multiplexer has eight discrete inputs and eight outputs, as well as eight analog (4-20 mA) inputs and outputs. The DD1000/SRM/2.4 is as described above but offers only the discrete function.

The radio section of the multiplexers incorporate the license-free 2.4-2.4853 GHz spread spectrum ISM (industrial/scientific/medical) band technology used by the Data-Linc Group SRM Family of radio modems. These units are capable of wireless transmission up to 15 miles (24 km) with line-of-sight and an omni directional antenna.

In the event of a communications link failure, discrete outputs will default to open, while analog outputs will default to 4 mA.

FEATURES

- Easy to implement
- Field configurable
- Automatic restart
- No special software required
- Point-to-point or point-to-multipoint
- Inexpensive to install—no wires to route or ditches to dig

APPLICATIONS

- Mining
- Water/wastewater- monitor tank levels via 4-20 mA analog signals and control pump contact closure via discrete signals
- Most types of discrete 4-20 mA applications

Please consult with a Data-Linc Group Applications Specialist by phone at (425) 882-2206, send your proposed application diagram to us via Fax at (425) 867-0865 or e-mail sales@data-linc.com

DD1000/SRM/2.4 DDAA1000/SRM/2.4 SPECIFICATIONS

System Configurations

Point-to-point, point-to-multipoint; (1 Master with up to 8 addressable single channel Remotes)

Channel Functions

Analog. 4-20 mA standard, 24 VDC max. Internal 8 bit A/D yields 2% accuracy of 4-20 signals

Discrete Input. Dry contact closure-switch closure detection

Discrete Output. Open collector—sync to ground

100 mA per channel 12-24 VDC

Operating Environment

Standard. 32^o to 140^o F (0^o to 60^o C)

Humidity. 0 to 95% non-condensing humidity

Connections

RF Antenna. Standard thread SMA female. Supplied bench test 0 dB antenna. Optional external omni or yagi antennas available.

Analog. (4-20 mA input and output): 9 position pluggable terminal blocks

Pluggable terminal blocks standard wire size 12-26 AWG

Digital (Contact closure input and output): 9 position pluggable terminal blocks

Pluggable terminal blocks standard wire size 12-26 AWG

Power. Barrel jack (2.0 mm center, 6.5 mm barrel) 120 to 12 VDC barrel jack transformer included

Configuration. 6 pin mini-din. RS232 Port used for reconfiguration of RF and processor Channel Parameters.

Supplied programming cable and software CD with each Master unit.

Indicators

Power

CD (Carrier Detect)

Tx (Transmit Data)

Rx (Receive Data)

Status (Error Status, Master unit only)

Voltage and Current

Voltage. 12 VDC nominal, min 10.5, max 18 VDC

Current. 160 mA idle, 660 mA peak on transmit

Enclosure

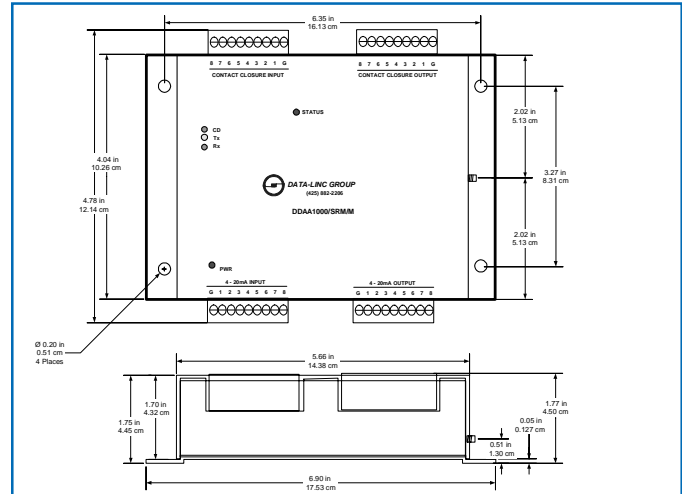
Standard. 18-gauge steel with mounting flanges

Weight. 1.65 lb (0.75 kg)

Shipping Weight. 4 lb (1.82 kg)

Specifications subject to change without notice.

DD1000/SRM/2.4 DDAA1000/SRM/2.4 DIMENSIONS



DD1000/SRM/2.4/M (Master unit)

Discrete signal multiplexer with integral radio modem: 2.4-2.4835 GHz license free radio modem with 8 discrete Inputs and Outputs.

DD1000/SRM/2.4/R (Remote unit)

Discrete signal multiplexer with integral radio modem: 2.4-2.4835 GHz license free radio modem with 8 discrete Inputs and Outputs.

DDAA1000/SRM/2.4/M (Master unit)

Discrete and Analog signal multiplexer with integral radio modem: 2.4-2.4835 GHz license free radio modem with 8 discrete Inputs and Outputs as well as 8 analog Inputs and Outputs.

DDAA1000/SRM/2.4/R (Remote unit)

Discrete and Analog signal multiplexer with integral radio modem: 2.4-2.4835 GHz license free radio modem with 8 discrete Inputs and Outputs as well as 8 analog Inputs and Outputs.

ALLIANCE PARTNERS



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