

DD1000 DDAA1000

DISCRETE/ANALOG WIRELESS MULTIPLEXER-900 MHZ BAND



The Data-Linc Group DD1000 and DDAA1000 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 combines an analog/discrete signal digitizer with Data-Linc'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 is as described above but offers only the discrete function.

The RF section of the multiplexers incorporate the license-free 902-928 MHz 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 25 miles (40 km) with line-of-sight and an omni directional antenna.*

In the event of a communications link failure, discrete and analog are software configurable.

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 and/or 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

* For RF speeds refer to SRM6000 data sheet

DD1000

DDAA1000/900 MHz

SPECIFICATIONS

Included

Software CD & User Documentation
RS232 configuration cable
Test antenna. 0dBd
12 VDC wall power supply

System Configurations

Point-to-point, point-to-multipoint; (1 Master with up to 8 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. Self sensing open/close circuit detection

Discrete Output. Open collector—sink to ground. 12 to 24 VDC. 100 mA max per channel

Operating Environment

Standard. 32° to 140° F (0° to 60° C)

Humidity. 0 to 95% non-condensing humidity

Connections

Antenna. Standard thread SMA female. 50 Ω
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 (DDAA1000 only)

Digital (Contact Closure input and output):

9 position pluggable terminal blocks

Pluggable terminal blocks standard wire size 12-26 AWG

Power. 2 pin terminal block

Indicators

Power

CD. Carrier Detect

Tx. Transmit Data

Rx. Receive Data

Status. Error Status

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)

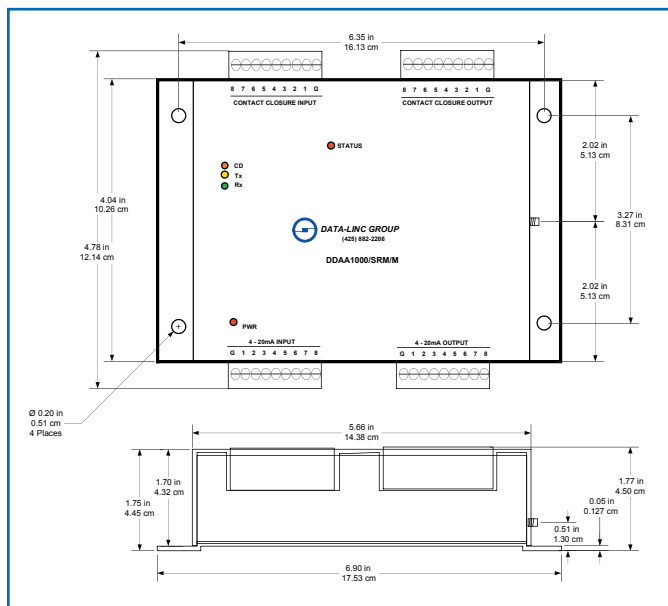
Shipping Weight. 4 lb (1.82 kg)

Specifications subject to change without notice.

DD1000

DDAA1000

DIMENSIONS



DD1000

Discrete signal multiplexer with integral radio modem:

902 to 928 MHz license free radio modem with 8 discrete Inputs and Outputs.

DDAA1000

Discrete and Analog signal multiplexer with integral radio modem: 902 to 928 MHz license free radio modem with 8 discrete Inputs and Outputs as well as 8 analog Inputs and Outputs.

ALLIANCE PARTNERS



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