FieldServer
Technologies

A Sierra Monitor Company

Driver Version:	1.07
Document Revision:	2

FieldServer Driver - Serial
FS-8700-49
Data Aire DAP

Description

The Data Aire Driver is capable of direct connection to a network of Data Aire DAP devices. The FieldServer is connected in a RS-485 loop topology. Two FieldServer ports are required per loop. The driver is an active client. All data is obtained by poll & response. The driver may be configured very simply – a simple one line configuration tells the driver to store "everything" in a large array. The driver manual identifies the location in the array of each data field. Advanced configurations are also possible – refer to Driver Manual.

Connection to a DART is not supported by this driver.

Fieldserver Mode	Nodes	Comments
Client	1	
Server	32[1]	It may be necessary to use a repeater if total RS-485 length exceeds 1000ft.

Formal Driver Type

Serial
Client Only

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-x2010	No
FS-x2011	No
FS-x40	Yes,
FS-x30	No

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[1] If the DAP controllers are connected directly to the FieldServer the limit of 32 nodes does not apply. According to the spec, the number of nodes can range from 1-260 under these conditions. Normal RS-485 network considerations apply and this can only be achieved with network repeaters. Please refer to the Driver manual for more information.

Connection Information

Connection type:	RS-485 (RS-232 with converter)
Baud Rates:	2400 or 9600[2] (Vendor limitation)
Data Bits:	**8** (Vendor limitation)
Stop Bits:	**1** (Vendor limitation)
Parity:	**None** Vendor limitation
Multidrop Capability	No

Proprietary Physical Interfaces Supported

Fieldserver Model	Adapter Model #	Vendor	Physical Medium

Devices tested

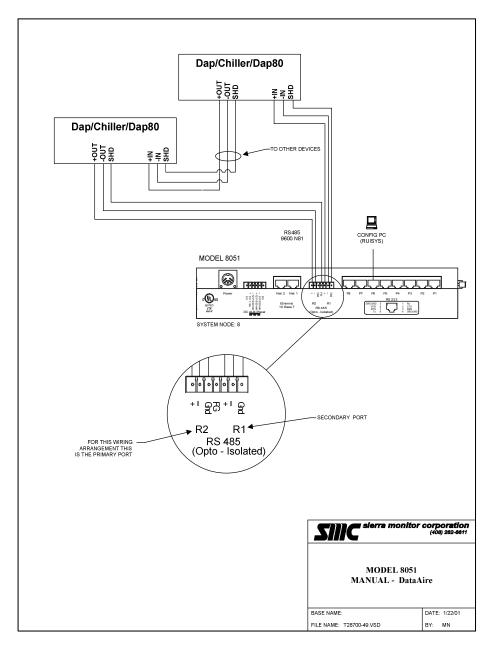| Device	Tested (FACTORY, SITE)
DAP II Panel DA DAP II p/n 160-300-080 RevE Software Revision 9.0-STD	Factory & Site.

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[2]DAP V9.5 or later supports 9600

Connection configurations

The FieldServer is connected to the DAP devices as shown in connection drawing.
Configure the DAP devices according to manufacturer's instructions

Connection Notes

The Driver requires two dedicated RS-485 ports (or RS-232 ports with converters) for each DAP device network.
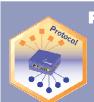
Communications functions - Supported functions at a glance:

Device	Driver Capability	Description
"1"	None	044 data logger
"2"	Yes	046 expanded DAP
"3"	Yes	046 2 mod chiller
"4'	Yes	046 3 mod chiller
"5"	Yes	048 DAP, 80-character display
"6"	Yes	049 DAP, 16-character display
"7"	Yes	080 DAP II, no relay expansion
"8"	Yes	080 Chiller II
"9"	Yes	080 DAP II, with relay expansion
"10"		Not Defined
"11"		Not Defined
"12"		Not Defined
"13"		Not Defined
"E"	Yes	080 DAP II, with analog module
"F"	Yes	080 DAP II, with relay and analog

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