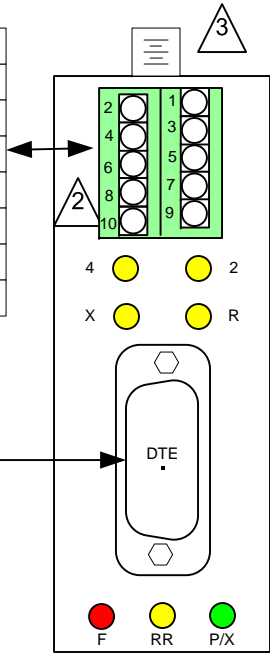


View from Front

Pin	Description
1	Configuration Mode Select
2	Power (-)
3	Enable 3 wire RS232 Mode
4	12/24 Volt DC Power (+)
5,6	RS485 Shield / Common
7,8	RS485 (-)
9,10	RS485 (+)



Configuration Options

1 - 5 = Configuration mode selected
 3 - 5 = 3 wire RS232 Mode

Factory Default

RS232 mode ; Flow control enable
 Baud = 9600, 8,N,1

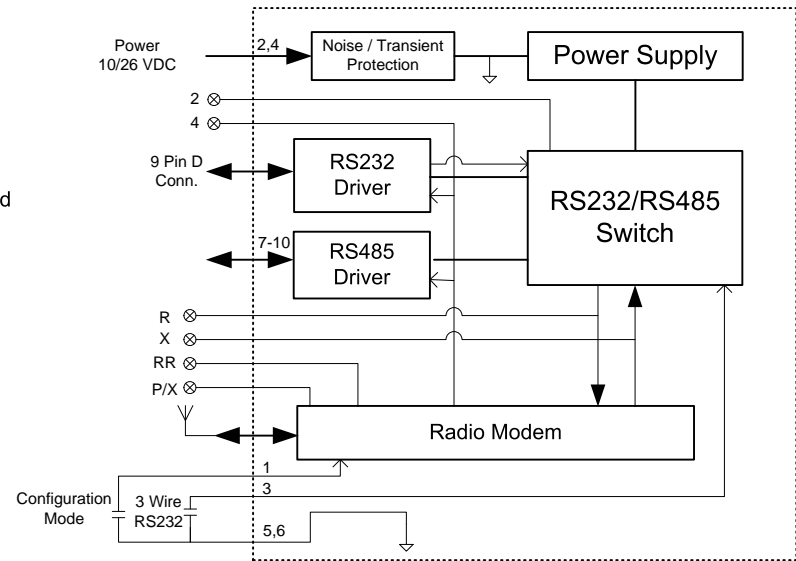
Pin Assignments

Def	Pin #
CD	1
TX	2
RX	3
DSR	4
GND	5
DTR	6
CTS	7
RTS	8
NC	9

RS232 Connection to DC, DH, ICS, PLC, Computer, etc.



Simplified Schematic



Notes:

- 1 RS232 Connector is 9 Pin Female. Use nulled cable to interface with AGM DH.
- 2 RS485 is 2 wire, half duplex. Add 120 ohm termination resistor to both ends of twisted wire pair if wire length longer than 50 feet.
- 3 Antenna connection is Reverse SMA. Use only FCC compliant antenna.
- 4. Device complies with Part 15 of the FCC Rules.
- 5. For wire length greater than 50 feet, use standard approved methods for protecting lines from transients.
- 6. Use a 9 Pin Male to Female cable to connect radio to AGM Data Controller, DCE (A) port

Indicators

LED	Description
4	RS485 Mode (See chart at right)
2	RS232 Mode (See chart at right)
X	RS232/RS485 Transmit. Flashes when characters sent to connected device from the radio.
R	RS232/RS485 Recieve. Flashes when characters received from connected device.
F	Failed. Indicates power too low or failure of module.
RR	Radio Receive. Flashes with each character received by radio.
P/X	Power / Radio Transmit. Indicates power to radio. Flashes when radio transmitting.

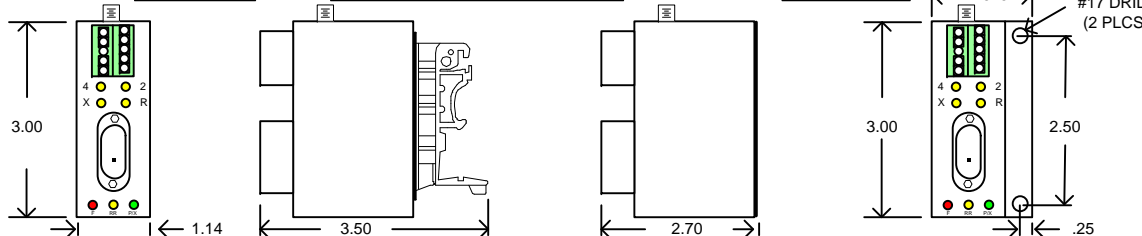
Diagnostics

LED 4	LED 2	Description
Off	Off	Factory Default
On	Flashing Off	RS485
Off	On	RS232 with correct cable connection.
On	On	Configured for RS485 and RS232 cable is connected.

DIN MOUNT

ALL DIMENSIONS IN INCHES

AUX MOUNT



Signature	Date
Drawn By JV	05/14/04
Checked By RF	05/14/04
Engr Appvd KH	05/14/04
QC Apprvd NT	05/14/04
Contract No.	

AGM Electronics. Inc.
Tucson, Arizona

Wiring and Schematic Diagram

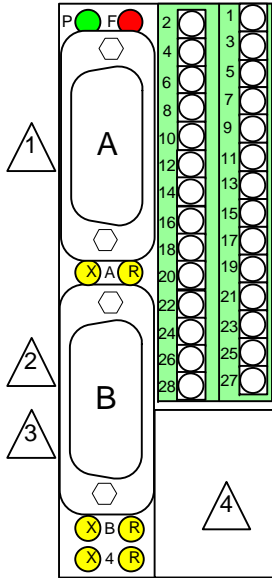
Spread Spectrum Modem
DIN / AUX 5017-1

Code ID No.	Size	Part No.	Rev
	A	WSD - 20425-3	A
Scale - None	Wt		Sheet 1 of 1

View from Front

Status Indicators

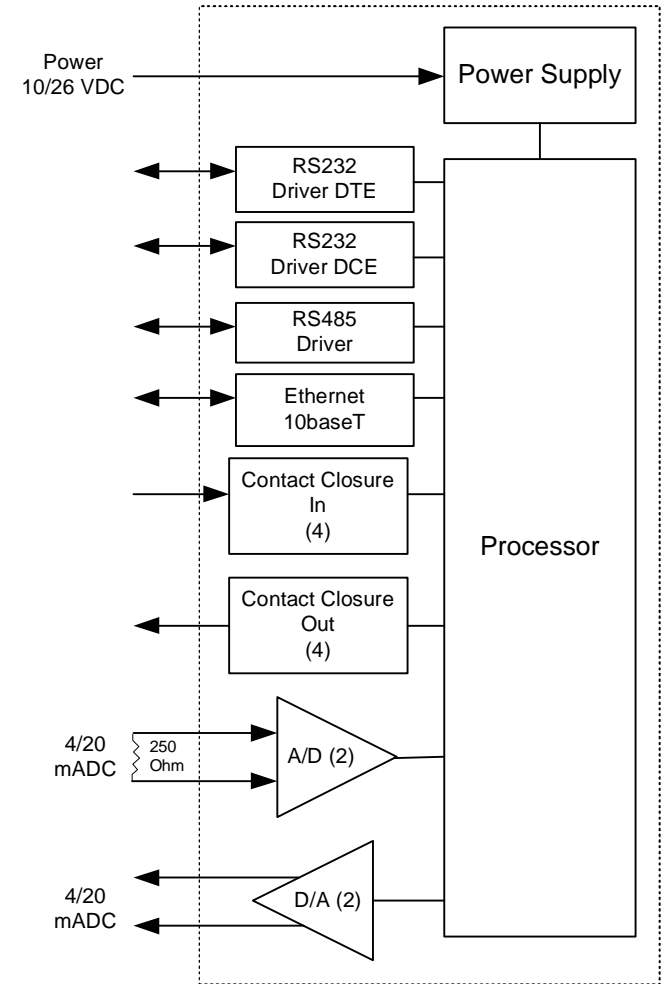
LED	Description
Link	Ethernet connected. Light located on RJ45 Connector
Activity	Ethernet activity. Light located on RJ45 connector.
X	Transmit. Flashes with each character sent. A = DCE Port. B = DTE Port. 4 = RS485 Port.
R	Receive. Flashes with each character received. A = DCE Port. B = DTE Port. 4 = RS485 Port.
P	Power Applied.
F	Failed. Indicates power too low or failure of module.



Wiring Table

Nbr	Description	Nbr	Description
2	Select Jumper (+)	1	Power (+)
4	Select Jumper (-)	3	Power (-)
6	Analog In 1 (+)	5	Analog In 1 (-)
8	Analog In 2 (+)	7	Analog In 2 (-)
10	Analog Out 1 (+)	9	Analog Out 1 (-)
12	Analog Out 2 (+)	11	Analog Out 2 (-)
14	Contact In 1 (+)	13	Contact In 1 (-)
16	Contact In 2 (+)	15	Contact In 2 (-)
18	Contact In 3 (+)	17	Contact In 3 (-)
20	Contact In 4 (+)	19	Contact In 4 (-)
22	Contact Out 1 (+)	21	Contact Out 1 (-)
24	Contact Out 2 (+)	23	Contact Out 2 (-)
26	Contact Out 3 (+)	25	Contact Out 3 (-)
28	Contact Out 4 (+)	27	Contact Out 4 (-)

Simplified Schematic



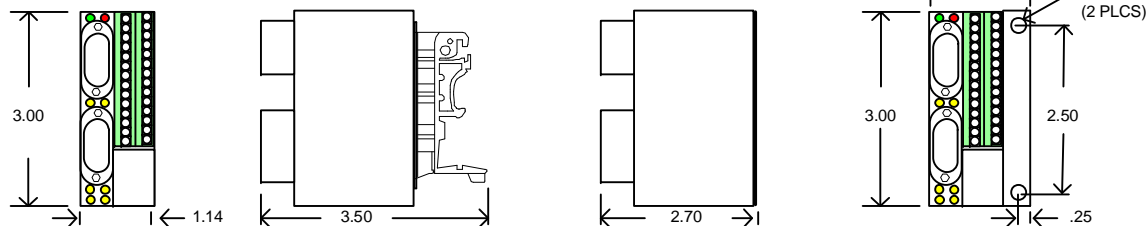
Notes:

- DCE RS232 Connector is 9 Pin female.
- DTE RS232 Connector is 9 Pin male.
- RS485 uses Pins 1 and 9 of DTE 9 pin connector. RS485 is 2 wire, half duplex. 120 ohm termination resistor required at each end but not at each DC.
- 10baseT Ethernet port uses RJ45 connector. Link and Activity lights are located on RJ45 connector.
- Jumper pins 2 and 4 to enable default Master mode of operation.
- Contact outputs rated 0.3 A at 125 VAC, 0.5 A at 30 VDC.
- Use a 9 Pin Male to Female cable from Port B to Port A of the next Data Controller to cascade Data Controllers.

DIN MOUNT

ALL DIMENSIONS IN INCHES

AUX MOUNT

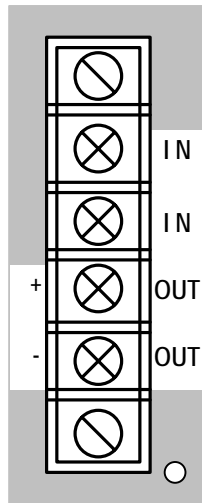


Signature	Date
Drawn By JV	05/14/04
Checked By RF	05/14/04
Engr Appvd KH	05/14/04
QC Apprvd NT	05/14/04
Contract No.	

AGM Electronics, Inc. Tucson, Arizona			
Wiring and Schematic Diagram			
Data Controller (2AIO, 4DIO) DIN/AUX5018-1			
Code ID No.	Size	Part No.	Rev
	A	WSD - 20166-34	NC
Scale - None	Wt	Sheet 1 of 1	

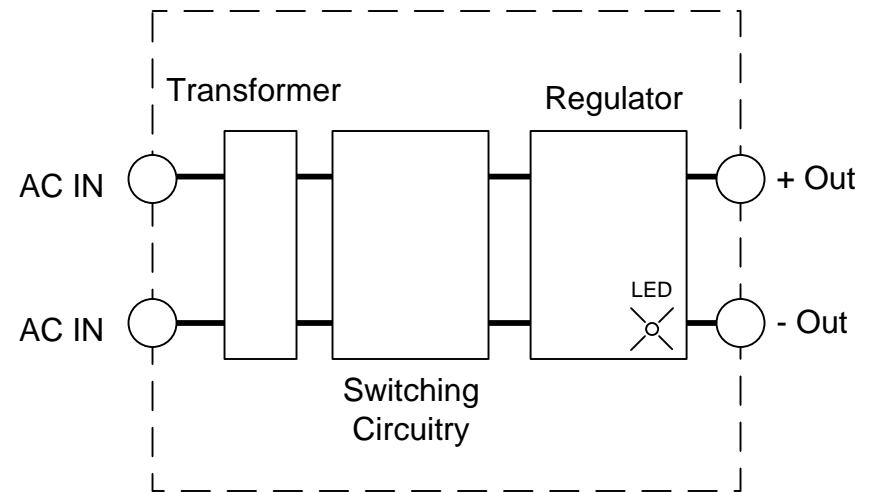
Physical

Wire
Cinching
Terminals



Power Okay
Indicator

Simplified Schematic



Input Specifications:

Input Voltage Range – 85 to 265 VAC
Frequency Range – 47 to 440 Hz
Inrush Current (Typ.) – 20A @ 100V, 40A @ 200V

Output Specifications:

Voltage – 24 VDC
Current – 0.6 Amps
Load Regulation - +/- 3%
Accuracy - +/- 1 %
Temperature Coefficient – +/- 0.03% / Deg C
Ripple/Noise – 100 mV P-P
Over Voltage Protection – Clamp, 130 to 150 %
Over Temperature Protection – Latching, Cool and Repower
Short Circuit Protection – Continuous, self-recovering
Hold Up Time – 20 mSec Typical

General Specifications:

Input/Output Isolation – 3KVAC
Efficiency – 75 to 78 % Percent
Switching Frequency – 100 KHz

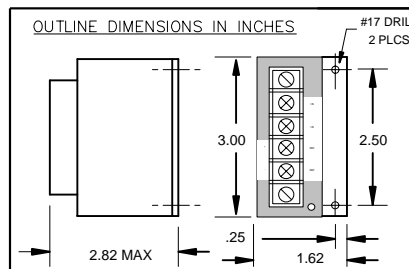
Environmental:

Operating Temperature – 0/70 Deg C
Storage Temperature - -25 to 71 Deg C
Relative Humidity – 0 to 95%, Non Condensing

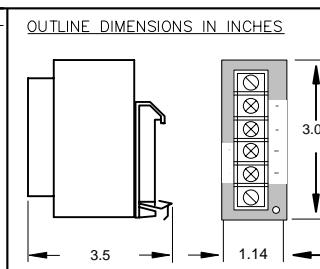
Notes:

- 1 TERMINALS ARE #6-40 SCREW TYPE BARRIER STRIP.
- 2 EQUIPMENT MUST HAVE GOOD VENTILATION.
AMBIENT TEMPERATURE NOT TO EXCEED 60 deg C.

AUX MOUNTING



DIN MOUNTING



SIGNATURE		DATE		AGM ELECTRONICS, INC. <small>TUCSON, ARIZONA</small>			
DRAWN BY JG		03/25/05					
CHECKED BY RF		03/25/05		WIRING & SCHEMATIC DIAGRAM Power Supply AUX/DIN 4552-10			
APPROVED BY							
APPROVED FOR PROD.							
CONTRACT NO.							
CODE IDENT NO.	SIZE	PART NO.		REV			
	A	WSD-C20293-7		NC			
SCALE NONE	WT			SHEET 1 OF 1			