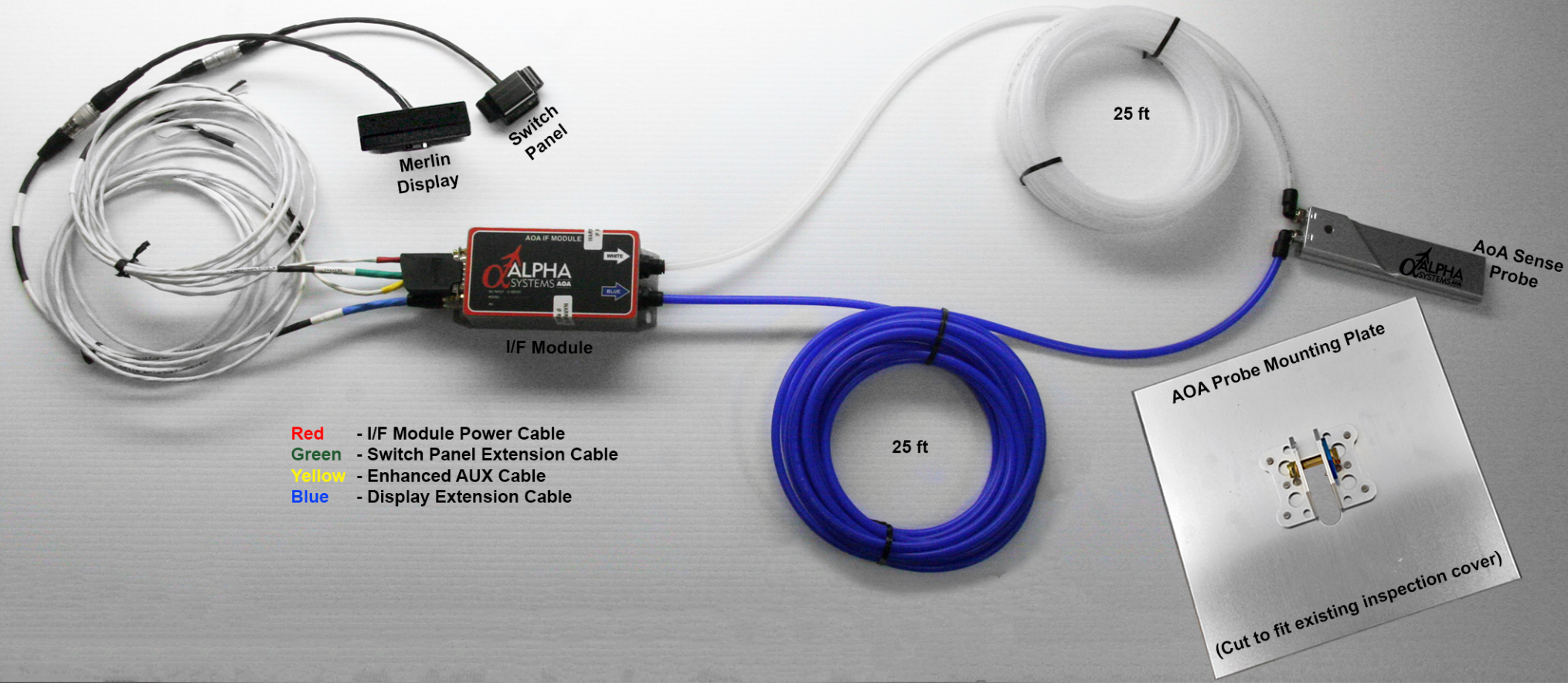
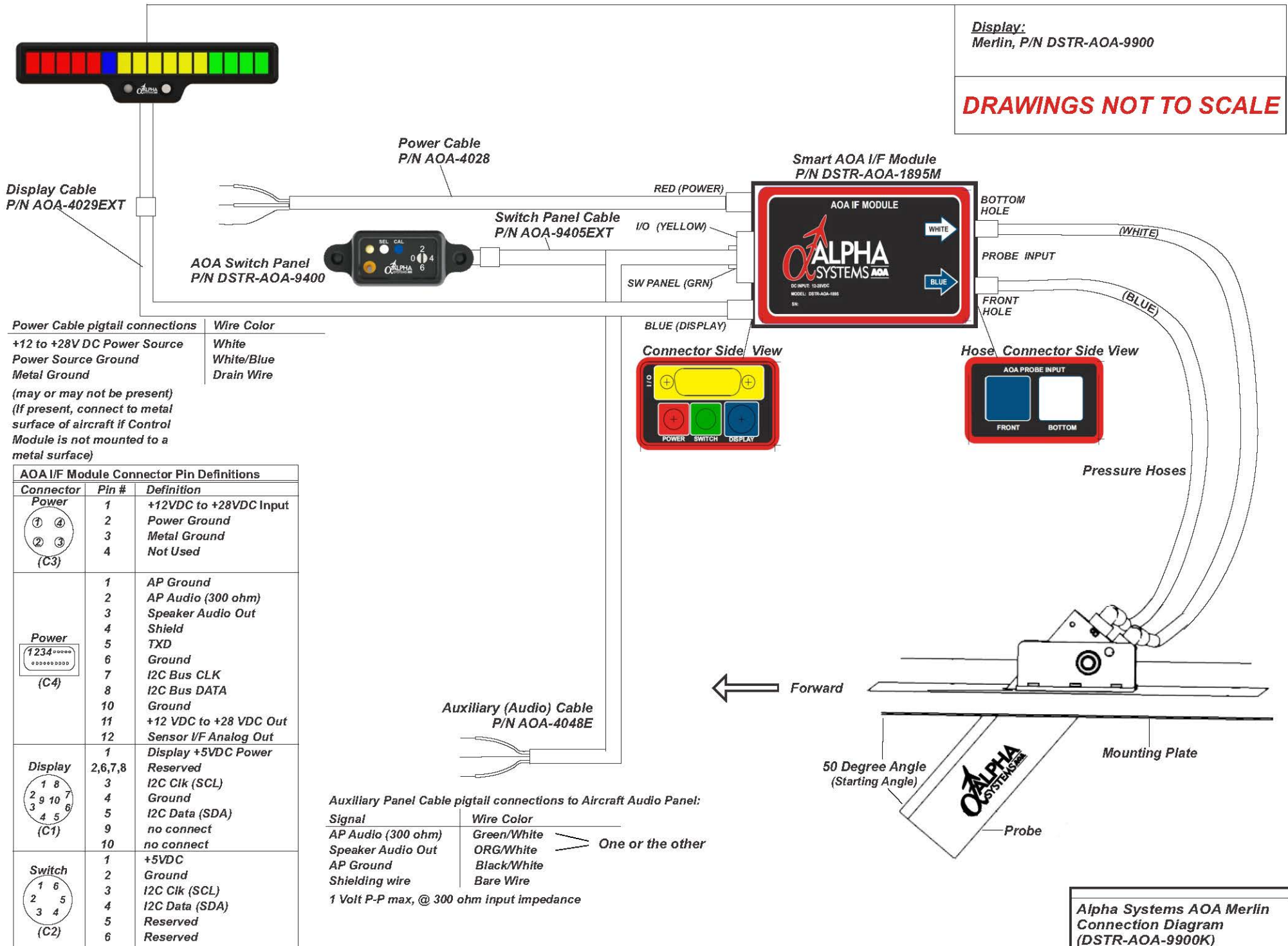


# Alpha Systems AOA Non-Pressurized System Diagram



Display:  
Merlin, P/N DSTR-AOA-9900

**DRAWINGS NOT TO SCALE**



Power Cable pigtail connections  
+12 to +28V DC Power Source  
Power Source Ground  
Metal Ground

Wire Color  
White  
White/Blue  
Drain Wire

(may or may not be present)  
(If present, connect to metal surface of aircraft if Control Module is not mounted to a metal surface)

AOA I/F Module Connector Pin Definitions		
Connector	Pin #	Definition
 (C3)	1	+12VDC to +28VDC Input
	2	Power Ground
	3	Metal Ground
	4	Not Used
 (C4)	1	AP Ground
	2	AP Audio (300 ohm)
	3	Speaker Audio Out
	4	Shield
	5	TXD
	6	Ground
	7	I2C Bus CLK
	8	I2C Bus DATA
	10	Ground
	11	+12 VDC to +28 VDC Out
	12	Sensor I/F Analog Out
	 (C1)	1
2,6,7,8		Reserved
3		I2C Clk (SCL)
4		Ground
5		I2C Data (SDA)
9		no connect
 (C2)	1	+5VDC
	2	Ground
	3	I2C Clk (SCL)
	4	I2C Data (SDA)
	5	Reserved
	6	Reserved

Auxiliary Panel Cable pigtail connections to Aircraft Audio Panel:

Signal	Wire Color
AP Audio (300 ohm)	Green/White
Speaker Audio Out	ORG/White
AP Ground	Black/White
Shielding wire	Bare Wire

One or the other

1 Volt P-P max, @ 300 ohm input impedance