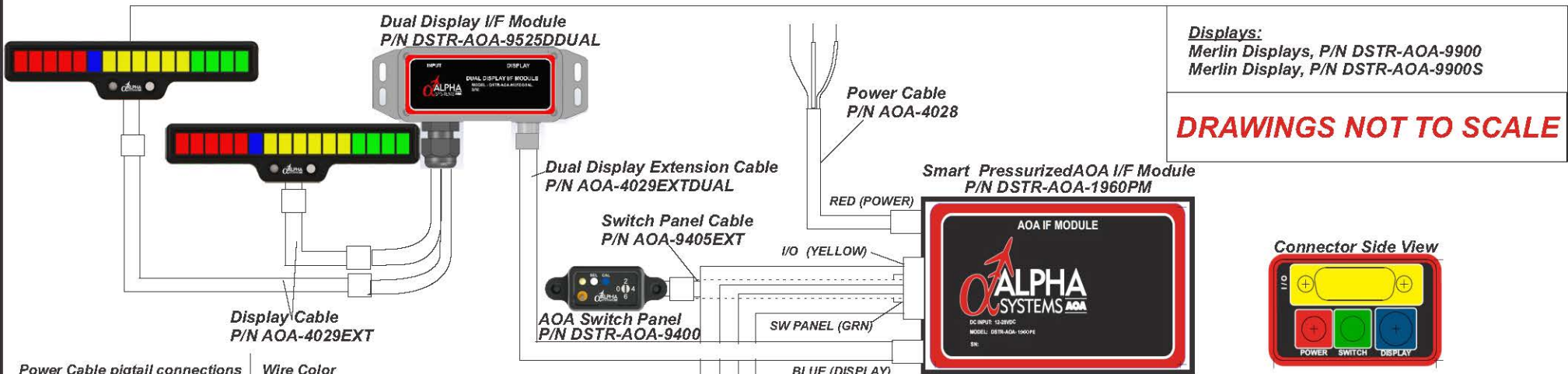


Alpha Systems AOA Dual Pressurized System Diagram



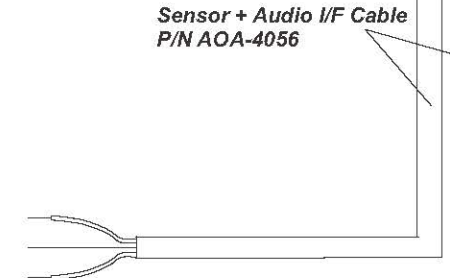
Displays:
Merlin Displays, P/N DSTR-AOA-9900
Merlin Display, P/N DSTR-AOA-9900S

DRAWINGS NOT TO SCALE

Power Cable pigtail connections	Wire Color
+12 to +28V DC Power Source	White
Power Source Ground	White/Blue
Metal Ground	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 (mono)	
	3	Reserved	
	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	Display +5VDC Power
2,6,7,8		Reserved	
3		I2C Clk (SCL)	
4		Ground	
5		I2C Data (SDA)	
9		no connect	
10		no connect	
 (C2)		1	+5VDC
		2	Ground
		3	I2C Clk (SCL)
	4	I2C Data (SDA)	
	5	Reserved	
	6	Reserved	

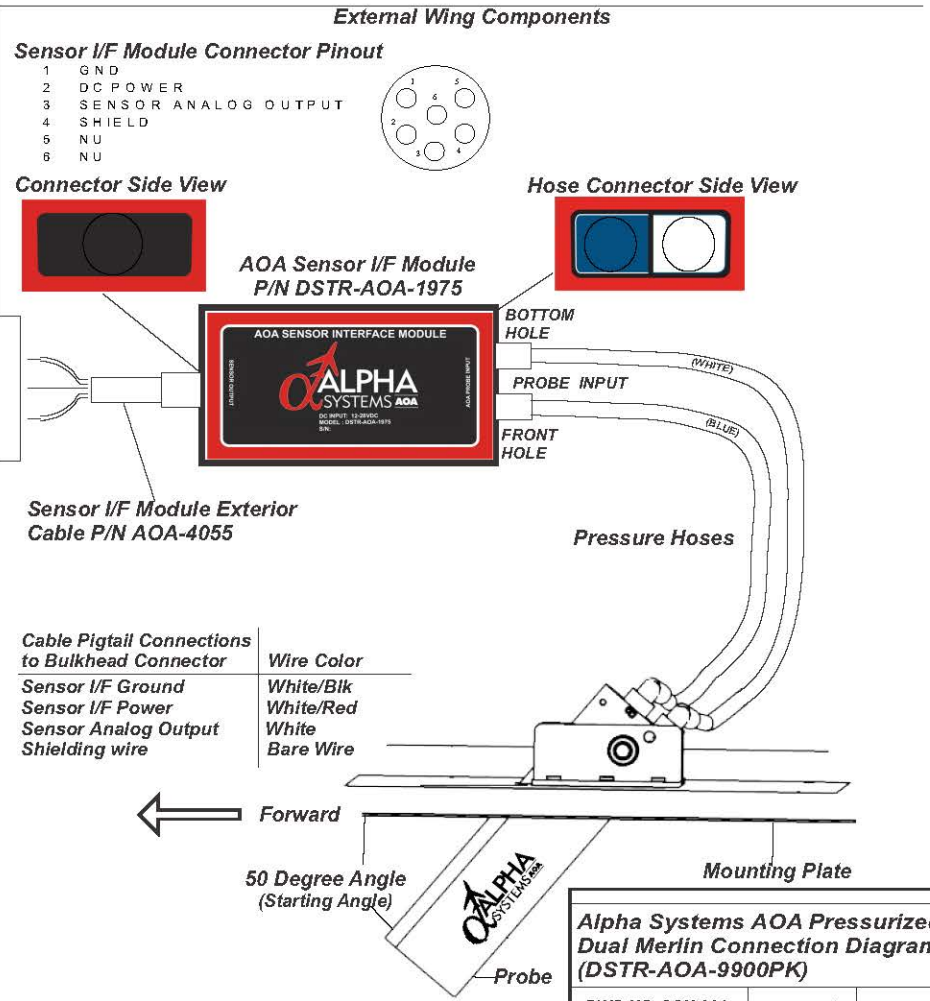


Signal	Wire Color
AP Audio (mono)	White/Green
AP Ground	White/Black
Shielding wire	Bare Wire

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

Cable Pigtail Connections to Bulkhead Connector	Wire Color
Sensor I/F Ground	White/Blk
Sensor I/F Power	White/Red
Sensor Analog Output	White
Shielding wire	Bare Wire

Note:
AOA (Display) I/F Module ~ .650 lbs.
Sensor I/F Module ~ .420 lbs.



Alpha Systems AOA Pressurized Dual Merlin Connection Diagram (DSTR-AOA-9900PK)