

REVISION HISTORY			
REV	ECO NO.	NAME	NOTES
-	2024-019	KQM	INITIAL RELEASE
-	2024-05-01		

NOTICE !
 IPR TO CONTROL HEAD ELECTRICAL INTERCONNECT PIN-OUT HAS CHANGED FROM THE IPR-1 TO IPR-2, USE REVISED PIN-OUT

DE-09 PIN ASSIGNMENTS IPR D-CONN	
1	N/C
2	+10 VDC FROM CONTROL HEAD
3	N/C
4	N/C
5	N/C
6	AVIONICS GROUND (COMMON)
7	N/C
8	N/C
9	N/C

DE-09 PIN ASSIGNMENTS IPR REGULATOR CABLE CUSTOMER END D-CONN	
1	+10 VDC FROM CONTROL HEAD (PIN19)
2	N/C
3	+10 VDC FROM CONTROL HEAD (PIN19)
4	PRESSURE SENDING UNIT SHIELD GROUND
5	PRESSURE (TANK) SENDING UNIT OUTPUT
6	N/C
7	CYL. & IPR REGULATOR CABLE SHIELD GROUND
8	N/C
9	AVIONICS GROUND (COMMON)

DE-09 PIN ASSIGNMENTS DISTRIBUTOR UNITS D-CONNECTORS	
1	DIST - SHIELD GND
2	DIST POWER GND
3	+10 VDC FROM CONTROL HEAD
4	DIST TX
5	DIST RX
6	N/C
7	N/C
8	N/C
9	N/C

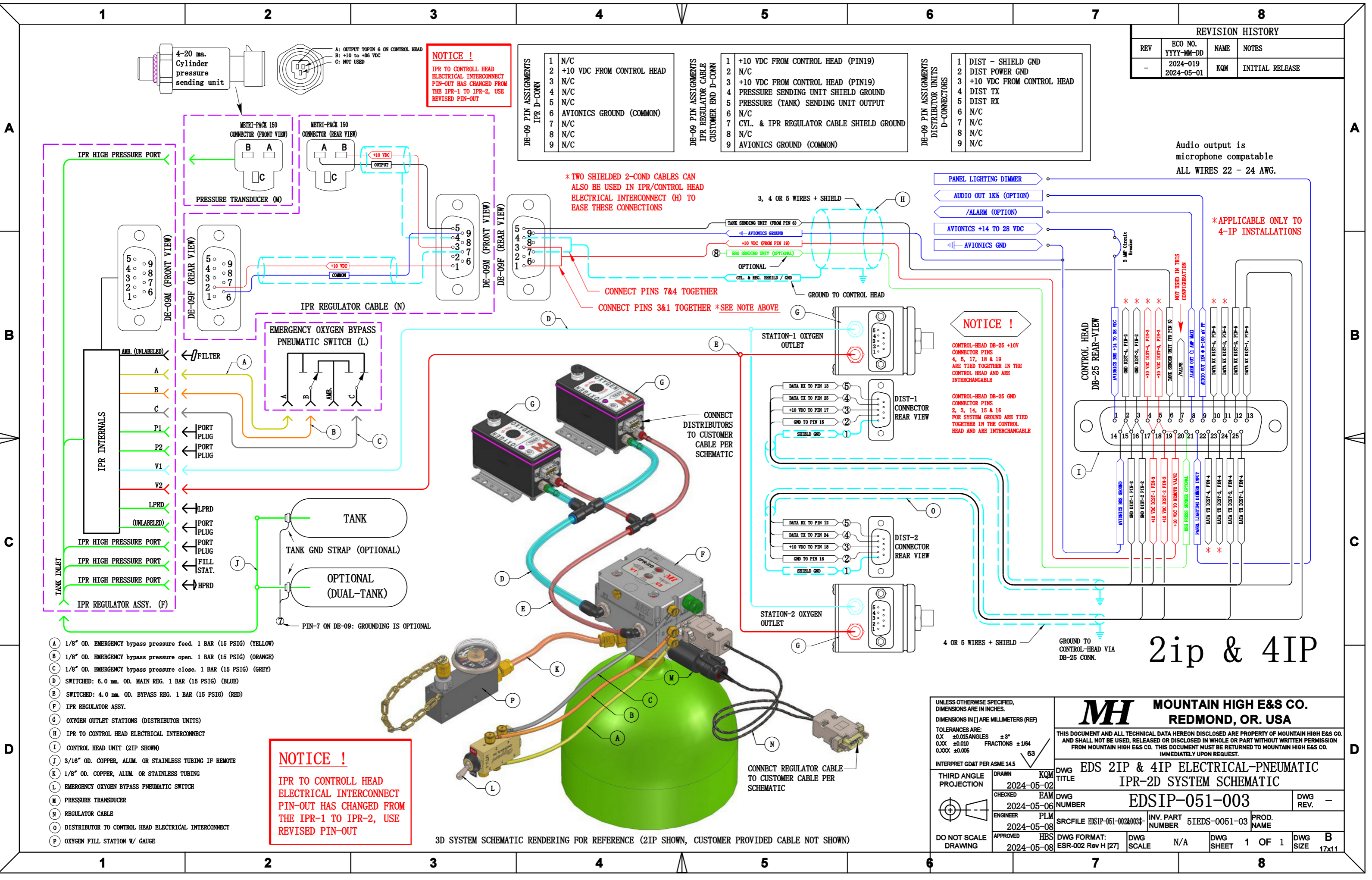
Audio output is microphone compatible ALL WIRES 22 - 24 AWG.

*TWO SHIELDED 2-COND CABLES CAN ALSO BE USED IN IPR/CONTROL HEAD ELECTRICAL INTERCONNECT (H) TO EASE THESE CONNECTIONS

CONNECT PINS 7&4 TOGETHER
 CONNECT PINS 3&1 TOGETHER *SEE NOTE ABOVE

NOTICE !
 CONTROL-HEAD DB-25 +10V CONNECTOR PINS 4, 5, 17, 18 & 19 ARE TIED TOGETHER IN THE CONTROL HEAD AND ARE INTERCHANGABLE
 CONTROL-HEAD DB-25 GND CONNECTOR PINS 2, 3, 14, 15 & 16 FOR SYSTEM GROUND ARE TIED TOGETHER IN THE CONTROL HEAD AND ARE INTERCHANGABLE

*APPLICABLE ONLY TO 4-IP INSTALLATIONS



- (A) 1/8" OD. EMERGENCY bypass pressure feed. 1 BAR (15 PSIG) (YELLOW)
- (B) 1/8" OD. EMERGENCY bypass pressure open. 1 BAR (15 PSIG) (ORANGE)
- (C) 1/8" OD. EMERGENCY bypass pressure close. 1 BAR (15 PSIG) (GREY)
- (D) SWITCHED: 6.0 mm. OD. MAIN REG. 1 BAR (15 PSIG) (BLUE)
- (E) SWITCHED: 4.0 mm. OD. BYPASS REG. 1 BAR (15 PSIG) (RED)
- (F) IPR REGULATOR ASSY.
- (G) OXYGEN OUTLET STATIONS (DISTRIBUTOR UNITS)
- (H) IPR TO CONTROL HEAD ELECTRICAL INTERCONNECT
- (I) CONTROL HEAD UNIT (2IP SHOWN)
- (J) 3/16" OD. COPPER, ALUM. OR STAINLESS TUBING IF REMOTE
- (K) 1/8" OD. COPPER, ALUM. OR STAINLESS TUBING
- (L) EMERGENCY OXYGEN BYPASS PNEUMATIC SWITCH
- (M) PRESSURE TRANSDUCER
- (N) REGULATOR CABLE
- (O) DISTRIBUTOR TO CONTROL HEAD ELECTRICAL INTERCONNECT
- (P) OXYGEN FILL STATION W/ GAUGE

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3D SYSTEM SCHEMATIC RENDERING FOR REFERENCE (2IP SHOWN, CUSTOMER PROVIDED CABLE NOT SHOWN)

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS (REF)

TOLERANCES ARE:
 0.X ±0.015 ANGLES ±3°
 0.XX ±0.010 FRACTIONS ±1/64
 0.XXX ±0.005

INTERPRET GD&T PER ASME 14.5

THIRD ANGLE PROJECTION	DRAWN KQM 2024-05-02	DWG TITLE EDS 2IP & 4IP ELECTRICAL-PNEUMATIC IPR-2D SYSTEM SCHEMATIC
	CHECKED EAM 2024-05-06	DWG NUMBER EDSIP-051-003
	ENGINEER PLM 2024-05-08	SRCFILE EDSIP-051-002&003
DO NOT SCALE DRAWING	APPROVED HBS 2024-05-08	INV. PART NUMBER 5IEDS-0051-03
		DWG FORMAT: ESR-002 Rev H [27]
		DWG SCALE N/A
		DWG SHEET 1 OF 1
		DWG SIZE B 17x11

MH MOUNTAIN HIGH E&S CO. REDMOND, OR. USA

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EDS 2IP & 4IP ELECTRICAL-PNEUMATIC IPR-2D SYSTEM SCHEMATIC

EDSIP-051-003

PROD. NAME: 5IEDS-0051-03