

XMD075 TYPICAL WIRING REFERENCE DIAGRAM

THIS DRAWING IS NOT AN ACTUAL AIRCRAFT INSTALLATION AND IS TO BE USED AS REFERENCE ONLY. ACTUAL AIRCRAFT INSTALLATION CONFIGURATIONS ARE TBD BY INSTALLER.

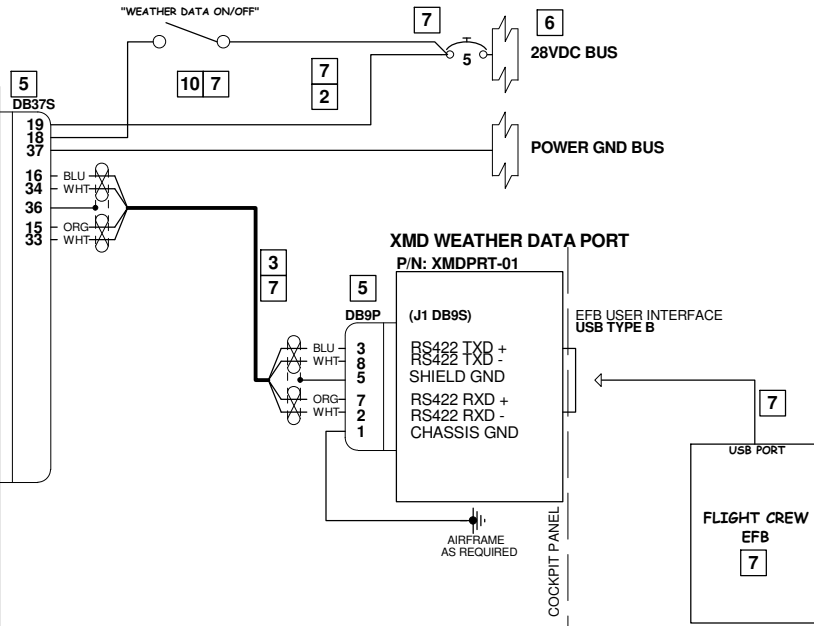
XMD075 RECEIVER, EFB TYPE P/N: XMD075-01

MAIN INTERFACE (J1 DB37P)

POWER
28VDC INPUT
POWER ENABLE
POWER GND

WEATHER DATA OUTPUT
RS422 RXD +
RS422 RXD -
SHIELD GND
RS422 TXD +
RS422 TXD -

"WEATHER DATA ON/OFF"



REV	DESCRIPTION	DATE/BY
A	CHANGED DATA PORT J1 TO PINS (C-3), CHANGED P/N OF RECEIVER TO XMD075-01 (D-1), REMOVED P1 (B-2)	08/26/03 JDH
B	ADDED ANTENNA OUTPUT TERMINATOR NOTE	11/25/03 JDH
C	CHANGED NOTE 10, REMOVED "OPTIONAL" FROM POWER ENABLE SWITCH.	04/21/04 JDH
D	CHANGED ANT OUT NOTE, DELETED DISCRETE I/O AND NOTE 8, CHANGED ANTENNA P/N TO "NO DASH", CHANGED NOTE 3.	10/26/04 JDH
E	CHANGED NOTE 4, ADDED CABLE CHART AND GAIN	04/10/06 JDH

NOTES: UNLESS OTHERWISE SPECIFIED

- ALL WIRING TO BE INSTALLED PER A/C MANUFACTURER
- ALL WIRE PER M22579/16-22 OR AS APPLICABLE TO ACTUAL AIRCRAFT INSTALLATION REQUIREMENTS.
- SHIELDED 2-PAIR RS-422 DATA CABLE PER BELDEN P/N 88102, DUAL M2750024TE2T14 OR SIMILAR CABLES CAN BE SUBSTITUTED.
- RF COAXIAL CABLE LOSS SHALL BE CONFIGURED THROUGH LENGTH AND TYPE TO RESULT IN 22dB (+/- 2dB) TOTAL ANTENNA GAIN AT RCVR INPUT. REFER TO SATELLITE CABLE CHART BELOW FOR TYPICAL XM ANTENNAS WITH GAIN AS SHOWN.
- CONNECTORS SHALL BE THE FOLLOWING, OR EQUIVALENT:
(SMA PLUG) TYCO/AMP P/N 225532-3
(DB37S) M24308/2-4F
(DB9P) M24308/4-1F
OTHER CONNECTORS USED SHALL BE TBD BY INSTALLER.
- POWER BUS VOLTAGE SHALL NOT EXCEED RTCA/DO160D CATEGORY Z.
- SHOWN FOR REFERENCE ONLY. NOT INCLUDED IN SYSTEM AND TO BE SUPPLIED BY INSTALLER/USER.
- MOUNTING STRUCTURE SHALL PROVIDE CHASSIS GROUND CONNECTION TO AIRFRAME
- ENERGIZE (APPLY 28VDC/30mA) POWER ENABLE FOR UNIT OPERATION. USE SWITCH AS SHOWN OR OR JUMPER DIRECT TO POWER WIRE.

SATELLITE CABLE CHART FOR ANTENNA GAIN = 30 - 34dB

RG Type (Mil-C-17)	Loss Rating (dB 100-Ft.) @ 2.39GHz	Length Range (Ft.) @ 8 - 12dB Loss
142	20.6	38.8 - 58.3
400	23.41	34.2 - 51.3
316	40.87	19.6 - 29.4
178	68.82	11.62 - 17.4

ANTENNA IN (SMA JACK)
RECD GAIN = 22dB (+/- 2dB)

ANTENNA OUT (SMA JACK)

OPTIONAL

ANTENNA DAISY-CHAIN OUTPUT TO NEXT RECEIVER
VERIFY TERMINATOR IS INSTALLED IF NOT USED (INSTALLED AT FACTORY) (HEADS UP P/N CON428)

DRAWN: JOHN HEADER	DATE: 07/30/03	HEADS UP TECHNOLOGIES 2033 Chensault Dr., Suite 100 Carrollton, Texas 75006-5097
CHECKED: JIM ALEXANDERSON	DATE: 07/31/03	
ENGINEER: JOHN HEADER	DATE: 07/30/03	WIRING REFERENCE DIAGRAM XMD075 WEATHER DATA RECEIVER
APPROVED: JIM ALEXANDERSON	DATE: 07/31/03	SIZE: B DRAWING NUMBER: XMD-3A
RELEASED: CRAIG PARRISH	DATE: 07/31/03	SHEET: 1 OF 1 REV: E FILE: _install\XMD\XMD-3a_EFB_wiring_typical_E.asc