



For bus pin-out, please see the schematic diagram for BATMAN-2

U11-6: "+5V" in Rack 5 divided by 2 (nominally 2.50V)
 U11-7: normally, 1.731V; if U11-6 goes below 1.731V,
 positive feedback drives U11-7 up to 1.763V
 U11-1: normally low (0.1V); high if input voltage is out of spec

U10-10: "+5V" in Rack 5 divided by 2 (nominally 2.50V)
 U10-11: normally, 2.750V; if U10-10 goes below 2.750V,
 positive feedback drives U10-11 down to 2.727V
 U10-13: normally high (4.95V); low if input voltage is out of spec

U10-8: "+5V" in Rack 5 divided by 2 (nominally 2.50V)
 U10-9: normally, 2.250V; if U10-8 goes below 2.250V,
 positive feedback drives U10-9 up to 2.277V
 U10-14: normally low (0.1V); high if input voltage is out of spec

U10-5: "+5V" in Rack 5 divided by 2 (nominally 2.50V)
 U10-4: normally, 2.630V; if U10-4 goes above 2.630V,
 positive feedback drives U10-5 down to 2.607V
 U10-2: normally high (4.95V); low if input voltage is out of spec

U10-6: "+5V" in Rack 5 divided by 2 (nominally 2.50V)
 U10-7: normally, 2.368V; if U10-6 goes below 2.368V,
 positive feedback drives U10-7 up to 2.395V
 U10-1: normally low (0.1V); high if input voltage is out of spec

Normal logic state is in square brackets []

At least one out of 12 humidity discriminators is above threshold

Power OK
 Big Green LED

Big Red LED

Big Yellow LED

VCCs differ by more than 0.25V

VCCs differ by more than 0.5V

> 5.5V

< 3.5V

< 4.5V

> 5.25V

< 4.75V

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Title BATMAN-3: LED board for monitoring status of humidity discriminators, ultrasonic water sensors, broken water sensor cables, and power in Rack 5		
Size B	Number Designed by Sasha Telnov (avtelnov@lbi.gov)	Revision 1.5
Date: 21-Sep-1998	Sheet of	Drawn By:
File: G:\telnov\projet\batman3_5v.Sch		