ISIS QB50 precursor CW beacon decoder

version: 1.0, 2014-06-06

Satellite ID		Battery Voltage	System current	Solar panel current	Antenna deployment	Battery Temperature	Radio temperature	CMD RX Counter	Safe mode trigger	Safe mode uptime	
Q	P										

	Satellite ID		Millivolts		Milliamps		Milliamps		Deployed AntS		Deg C.		Deg C.		Rolling counter		Cause		MSB (36 minutes)		LSB (minutes)
0	Unknown / error	**A**	< 6000	**A**	0 - 100	**A**	0 - 100	**A**	Side A - 0	**A**	< -20	**A**	< -20	**A**		**A**	None	**0**	0	**0**	0
1	QB50p1	**B**	6000 - 6100	**B**	100 - 200	**B**	100 - 200	**B**	Side A - 1	**B**	-20 - -15	**B**	-20 - -15	**B**		**B**	Unknown mode	**1**	1	**1**	1
2	QB50p2	**C**	6100 - 6200	**C**	200 - 300	**C**	200 - 300	**C**	Side A - 2	**C**	-15 - -10	**C**	-15 - -10	**C**		**C**	Deployment	**2**	2	**2**	2
		D	6200 - 6300	**D**	300 - 400	**D**	300 - 400	**D**	Side A - 3	**D**	-10 - -5	**D**	-10 - -5	**D**		**D**	Battery	**3**	3	**3**	3
		E	6300 - 6400	**E**	400 - 500	**E**	400 - 500	**E**	Side A - 4	**E**	-5 - 0	**E**	-5 - 0	**E**		**E**	Unexp reset	**4**	4	**4**	4
		F	6400 - 6500	**F**	500 - 600	**F**	500 - 600	**F**		**F**	0 - 5	**F**	0 - 5	**F**		**F**	Ground contact	**5**	5	**5**	5
		G	6500 - 6600	**G**	600 - 700	**G**	600 - 700	**G**		**G**	5 - 10	**G**	5 - 10	**G**		**G**	ADCS CS 3v3	**6**	6	**6**	6
		H	6600 - 6700	**H**	700 - 800	**H**	700 - 800	**H**		**H**	10 - 15	**H**	10 - 15	**H**		**H**	ADCS CC 3v3	**7**	7	**7**	7
		I	6700 - 6800	**I**	800 - 900	**I**	800 - 900	**I**		**I**	15 - 20	**I**	15 - 20	**I**		**I**	ADCS CC 5v	**8**	8	**8**	8
		J	6800 - 6900	**J**	900 - 1000	**J**	900 - 1000	**J**		**J**	20 - 25	**J**	20 - 25	**J**		**J**	ADCS CC BattV	**9**	9	**9**	9
		K	6900 - 7000	**K**	1000 - 1100	**K**	1000 - 1100	**K**		**K**	25 - 30	**K**	25 - 30	**K**				**A**	10	**A**	10
		L	7000 - 7100	**L**	1100 - 1200	**L**	1100 - 1200	**L**		**L**	30 - 35	**L**	30 - 35	**L**				**B**	11	**B**	11
		M	7100 - 7200	**M**	1200 - 1300	**M**	1200 - 1300	**M**		**M**	35 - 40	**M**	35 - 40	**M**				**C**	12	**C**	12
		N	7200 - 7300	**N**	1300 - 1400	**N**	1300 - 1400	**N**	Side B - 0	**N**	40 - 45	**N**	40 - 45	**N**				**D**	13	**D**	13
		O	7300 - 7400	**O**	1400 - 1500	**O**	1400 - 1500	**O**	Side B - 1	**O**	45 - 50	**O**	45 - 50	**O**				**E**	14	**E**	14
		P	7400 - 7500	**P**	1500 - 1600	**P**	1500 - 1600	**P**	Side B - 2	**P**	50 - 55	**P**	50 - 55	**P**				**F**	15	**F**	15
		Q	7500 - 7600	**Q**	1600 - 1700	**Q**	1600 - 1700	**Q**	Side B - 3	**Q**	55 - 60	**Q**	55 - 60	**Q**				**G**	16	**G**	16
		R	7600 - 7700	**R**	1700 - 1800	**R**	1700 - 1800	**R**	Side B - 4	**R**	> 60	**R**	> 60	**R**				**H**	17	**H**	17
		S	7700 - 7800	**S**	1800 - 1900	**S**	1800 - 1900	**S**						**S**				**I**	18	**I**	18
		T	7800 - 7900	**T**	1900 - 2000	**T**	1900 - 2000	**T**						**T**				**J**	19	**J**	19
		U	7900 - 8000	**U**	> 2000	**U**	> 2000	**U**						**U**				**K**	20	**K**	20
		V	8000 - 8100					**V**						**V**				**L**	21	**L**	21
		W	8100 - 8200					**W**						**W**				**M**	22	**M**	22
		X	8200 - 8300					**X**						**X**				**N**	23	**N**	23
		Y	8300 - 8400					**Y**						**Y**				**O**	24	**O**	24
		Z	> 8400					**Z**	Unknown side					**Z**	No cmds received			**P**	25	**P**	25
																		Q	26	**Q**	26
																		R	27	**R**	27
																		S	28	**S**	28
																		T	29	**T**	29
																		U	30	**U**	30
																		V	31	**V**	31
																		W	32	**W**	32
																		X	33	**X**	33
																		Y	34	**Y**	34
																		Z	35	**Z**	35