



Bareboat Necessities (BBN) Boat Monitoring

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Version 2024-04-16, Bareboat Necessities Boat Monitoring

<https://bareboat-necessities.github.io>

https://github.com/bareboat-necessities/lysmarine_gen

https://github.com/bareboat-necessities/lysmarine_gen/issues

<https://bareboat-necessities.wixsite.com/my-bareboat>

<https://github.com/bareboat-necessities/bbn-m5stack-tough>

<https://github.com/bareboat-necessities/bbn-nmea200-m5atom>

PDF version:

<https://bareboat-necessities.github.io/my-bareboat/bbn-boat-monitoring.pdf>

Chapter 1. What is BBN Boat Monitoring

Chapter 2. Connectivity

1. MDNS discovery of other services gpsd, SignalK, pypilot, etc
2. DHCP client
3. NTP client
4. Web server for configuration
5. Uptime reporting (sleeping periods to save power)
6. Ethernet to router
7. WhatsApp message
8. Command line WhatsApp messenger for Linux
9. Internet connection speed reporting

Chapter 3. Hardware

Chapter 4. Alarms (planned)

1. Heavy gases in bilge
2. High salinity of water in bilge
3. Hydrogen gas alarm
4. Fire alarm. Smoke detector
5. Carbon monoxide alarm
6. Hatch open
7. High heel or pitch
8. High wind alarm
9. Lightning storm detected
10. Forgot nav lights 'on'
11. Motion detected
12. High humidity
13. Possible fog conditions
14. Snow or ice conditions
15. Barometer keeps falling alarm
16. Temp alarm (ex: fridge warm)
17. Dingy too far
18. GPX fix lost
19. High current at anchor (by speed through water)
20. Low water under keel alarm
21. Accelerometer alarm for high waves
22. Anchor alarm (plus command line utility to activate and deactivate)
23. Grounding alarm from accelerometer
24. Hard impact on hull (via accelerometer)
25. Heartbeat (ImAlive) WhatsApp message
26. Voltage alarm
27. Bilge pump alarm