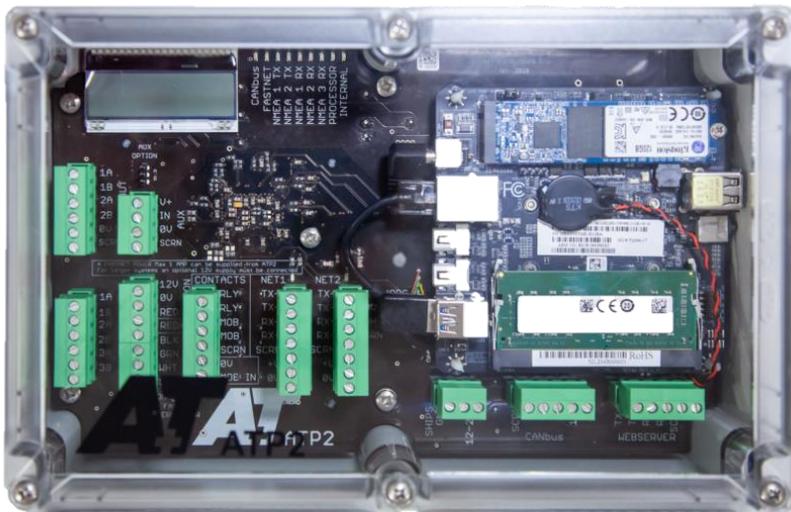




ATP2 PROCESSOR

INSTRUMENTS



A+T 5 way marinated Ethernet Switch

High performance yacht instrument system based on an ethernet network

- The first performance instrument system based on an ethernet network
- Single ethernet cable through yacht links all sensors and displays so minimising wiring
- Very powerful processor – instrument calculations running at 100Hz
- Web-interface for all commissioning, calibration & diagnostics
- 12-24V power
- 24/7 telephone support
- FIVE year warranty



ATP2 PROCESSOR

INSTRUMENTS

The ATP2 system combines the ease of use of a modern web-server based system with performance beyond that of existing performance systems such as WTP2 and WTP3.

- Fast boot time, less than 20 seconds from power on to full function
- Integral LCD display of IP address & status, comprehensive diagnostic LEDs
- Webserver connection to any computer for all settings, configuration and monitoring of internal computations. Allows A+T to support over Team viewer
- No limit to number of displays that can be connected on system and no practical length limitation on cabling
- Supports any number of external channels from Expedition
- Integral heel measurement allows for heel compensation of wind and leeway model
- Mast motion correction from internal rate gyros
- Enhanced wind calibration tables & well documented computation schema
- Enhanced current calculations
- Unlimited Loadcell and analogue channels; individually labelled and configured
- Custom additions and suggestions welcome

The screenshot shows the ATP2 web interface with the 'Wind' tab selected. The left sidebar contains a navigation menu with 'Wind' selected, and a status section showing 'UT 16:05:54 26 Feb 2021' and 'Local 17:05:54 26 Feb 2021'. The main content area is titled 'Wind Input 1' and contains the following configuration fields:

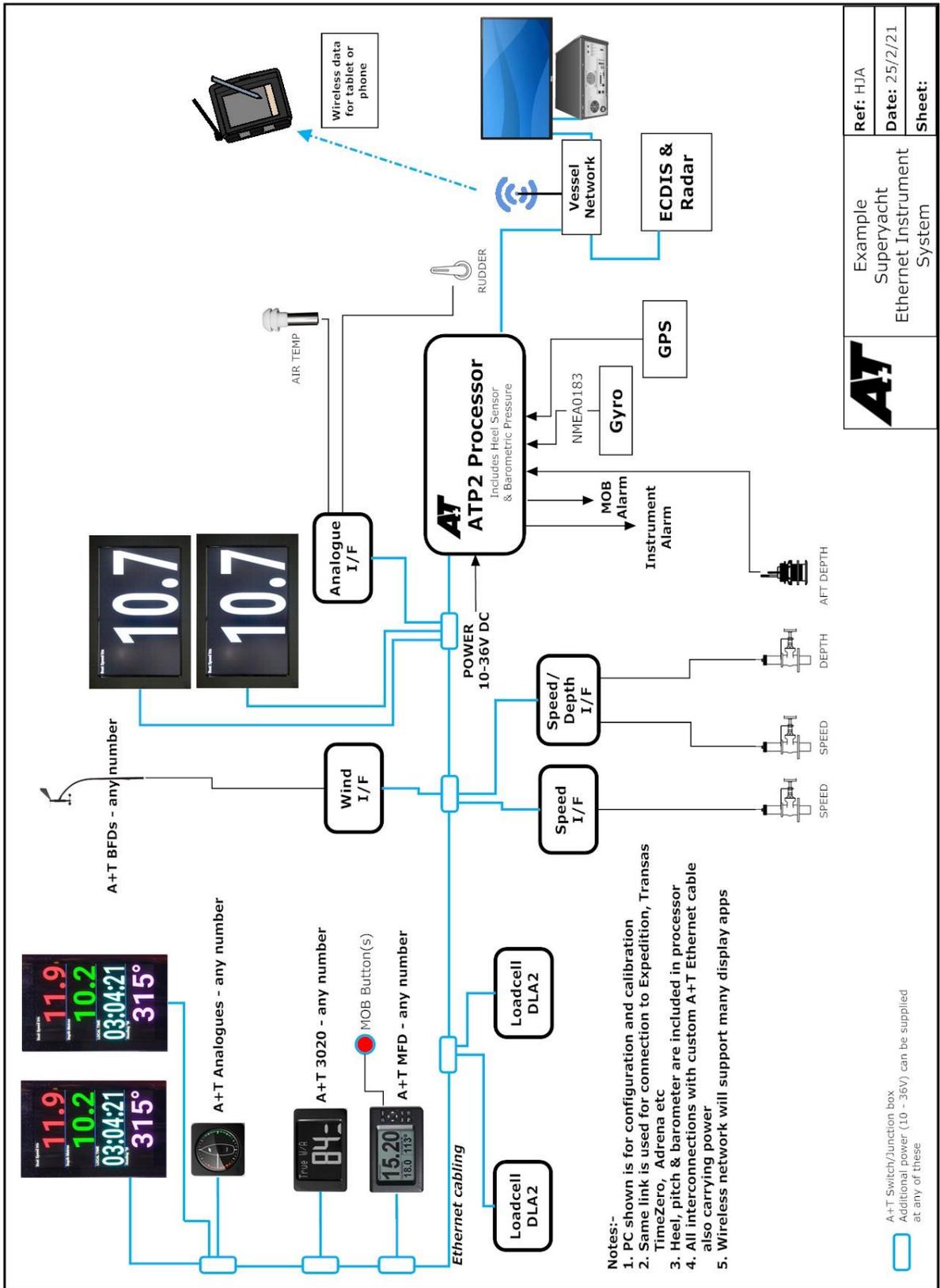
Sensor Name:	Main Mast			
Sensor Source:	NMEA0183			
NMEA0183 Channel:	ATP Port 1	NMEA0183 Settings		
Raw MAWS	51.61 kt	Raw MAWA	-68.20°	
Calibration Factor	1.04	Angle Offset	-2.0 °	
Mast Motion	n/a	Mast Rotation	n/a	Advanced
MAWS	53.67 kt	Mast Motion	n/a	
		MAWA	-70.20°	
Heel	0.2°	Heel Correction	0.00°	
Heel Correction	0.00 kt	Apply Correction?	<input type="checkbox"/>	
Apply Correction?	<input type="checkbox"/>	CAWA	-70.20°	
CAWS	53.67 kt			

At the bottom of the configuration area are three buttons: 'OK', 'Cancel', and 'Apply'.



ATP2 PROCESSOR

INSTRUMENTS



	Example Superyacht Ethernet Instrument System	Ref: HJA
		Date: 25/2/21
		Sheet:

A+T Switch/Junction box
Additional power (10 - 36V) can be supplied
at any of these



ATP2 PROCESSOR

INSTRUMENTS

TECHNICAL INFORMATION

The heart of the system is the ATP2 running at 2.6 GHz, 128GB of solid state drive & 4GB RAM

- Single Ethernet cable runs through yacht. Power on this cable runs sensor interfaces
- A+T 5 way switch used to link all network branches and to add additional power (12 – 24V) where needed for displays
- Inputs/outputs built into ATP2:-
 - 3 Serial/NMEA0183 input and 2 output (selectable baud rates)
 - 1 Analogue channels with 5V & 12V reference supply
 - 2 separate alarm relays (general and MOB)
 - 1 N2k compatible for sensor input and data output
 - 1 Fastnet connection to support existing B&G displays and sensors
 - 1 Ethernet connection for external computer
 - 2 Ethernet connection for A+T BUS
 - Integral heel, pitch, rate gyros and barometric pressure
- All configuration and viewing of internal calculations by webserver
- Separate interface units are connected where convenient:-
 - Speed/Temp & Depth (170kHz) (adds a further NMEA0183 input)
 - Speed/Temp (adds a further NMEA0183 input)
 - Wind
 - Analogue 4 x 0-12V inputs plus 1 x 0-20mA
 - Loadcell (also adds a further analogue input)