

# PRELIMINARY DATASHEET

## OPTICAL AMMONIA ANALYZER



### Optical Ammonia Analyzer (OAA)

#### Specifications:

Measurement Technology	ICOS / CEAS
NH <sub>3</sub> Measurements Dynamic Range	1ppb - 10ppm
NH <sub>3</sub> Measurements Precision	±1ppb (1s, 1σ) / ±0.3ppb (10s, 1σ) / ±0.1ppb (100s, 1σ)
Data Rate	1Hz
Gas Sample Flow Rate	2 SLPM (slower sample flow rate is also available)
Ambient Operating Temperature Range	5 °C to 45 °C
Water Dynamic Range	0 - 30,000 ppm
Ambient Humidity Range	0 - 95% R.H. non-condensing
Outputs / Connectors	UART (for data logger), USB-3 / HDMI
Network Access	Built-in WiFi
Dimensions	Pelican 1525 Air Case: 22"x14"x7.5"
Weight	~8Kg (18lbs)
Power Input	14 - 28 VDC, 2.5 A
Power Consumption	35W (user-supplied battery or wall plug operable)
Internal Data Storage	SD Card (32GB); Can store >1M readings (equivalent to 2yrs of continuous data collection)
Calibration	Infrequent
Consumables	Inlet filter
Pump	Internal
Communication Platform	WiFi
Warranty	1 yr