



Oxygen Analyzer

AOS O2TA 2200

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AOS O2TA 2200 Technical Specification



1 Description

The Oxygen analyzer (AOS O2TA 2200) enables you to receive readings from any of the Australian Oxytrol Systems' oxygen probes, and thermocouples. It displays temperature and oxygen concentration readings, allowing visualisation of data over time. It provides indication of the environment, namely oxidising or reducing, and can record 48 hours of data to a USB flash drive. All that is needed for it to function is a connection to power and an oxygen probe.

Features

- Real-time:
 - temperature and oxygen level readings
 - graphing of temperature and oxygen levels
 - display of oxidation or reduction
- Record and log continuous data to a USB flash drive
- Display real-time temperature in Celsius, Fahrenheit, and Kelvin
- Graphical representation of Oxygen and Temperature data over time
- Oxygen concentration in mV or partial-pressure of Oxygen. The partial pressure value is in units of percent, ppm, or scientific notation, depending on the order of magnitude
- Automatic scale and update of graph scale as the data-set grows
- Record the oxygen level and temperature at every given time point to a CSV file on a USB flash drive
- Mark a point in time that is represented graphically as well as in the logged file
- Configurable battery backed up real time clock
- Display the data graph full screen if desired
- Configurable scale
- B, N, E, R, J, S, K, & T type thermocouples supported
- Connect to web app and monitor remotely
- Software upgrade facility
- Sampling supports up to 48 hours at up to 4 samples per second. Recommended sample rate settings for logging periods are as follows, to avoid creating overly large files:
 - 48 hours at 1 sample per second;
 - 24 hours at 2 samples per second;
 - 12 hours at 4 samples per second.

1.1 Connectivity

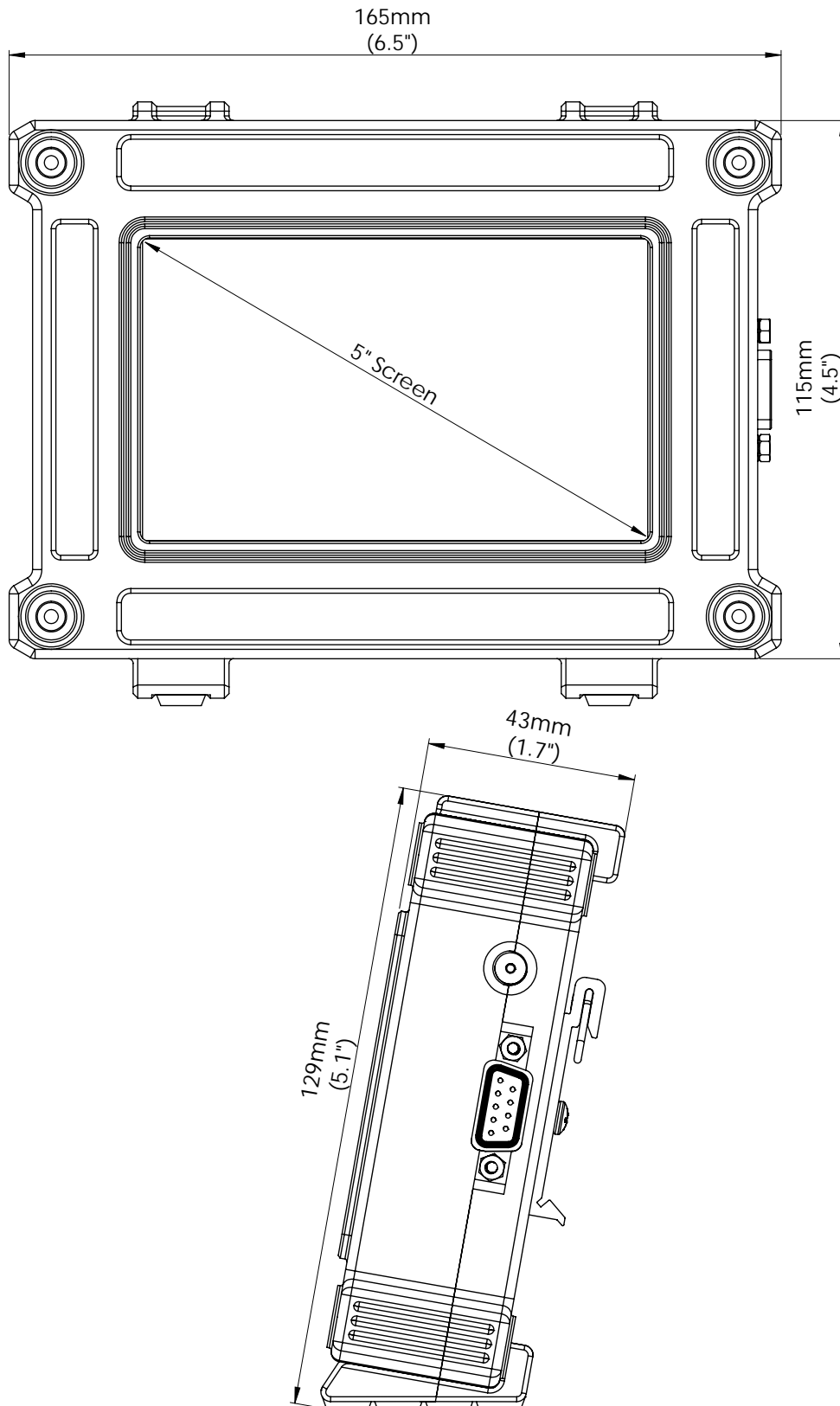
Remote viewing is enabled via wifi or network connection, if the analyzer is connected via ethernet to an appropriate router. The burn can be monitored via the webapp, using a phone, tablet or laptop.



2 Specifications

Environmental				
Parameter	Minimum	Typical	Maximum	Unit
Operating temperature	-20	30	70	°C
Storage	-30	20	80	°C
Electrical				
Parameter	Minimum	Typical	Maximum	Unit
Input power	–	12	–	V DC
Power consumption	–	20	–	Watts
Oxygen input	-2.0	–	2.0	VDC
Oxygen uncertainty	-1000	–	1000	mVDC 0.01%
Temperature input	-2.0	–	2.0	VDC
Temperature uncertainty	–	0.7	–	°C
Temperature accuracy	–	0.5	–	at 25°C
Oxygen Input Impedance	100	–	6	GΩ pF
Temperature Input Impedance	1	–	0.95	MΩ pF
Mechanical				
Parameter	Minimum	Typical	Maximum	Unit
Height	–	129	–	mm
Width	–	165	–	mm
Depth	–	43	–	mm
Weight	–	600	–	g
Thermocouples				
Type	Minimum	Typical	Maximum	Unit
B	250	–	1820	°C
E	-200	–	1000	°C
J	-210	–	1200	°C
K	-200	–	1372	°C
N	-200	–	1300	°C
R	-50	–	1768.1	°C
S	-50	–	1768.1	°C
T	-200	–	400	°C

3 Mechanical





4 Contact information

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