Product Specification

Senseair Salus

Test and diagnostic tool for
Handset of Senseair alcohol screener products

General

Senseair Salus performs health checks of the alcohol sensor to verify that the high requirements on alcohol level measurements are met.

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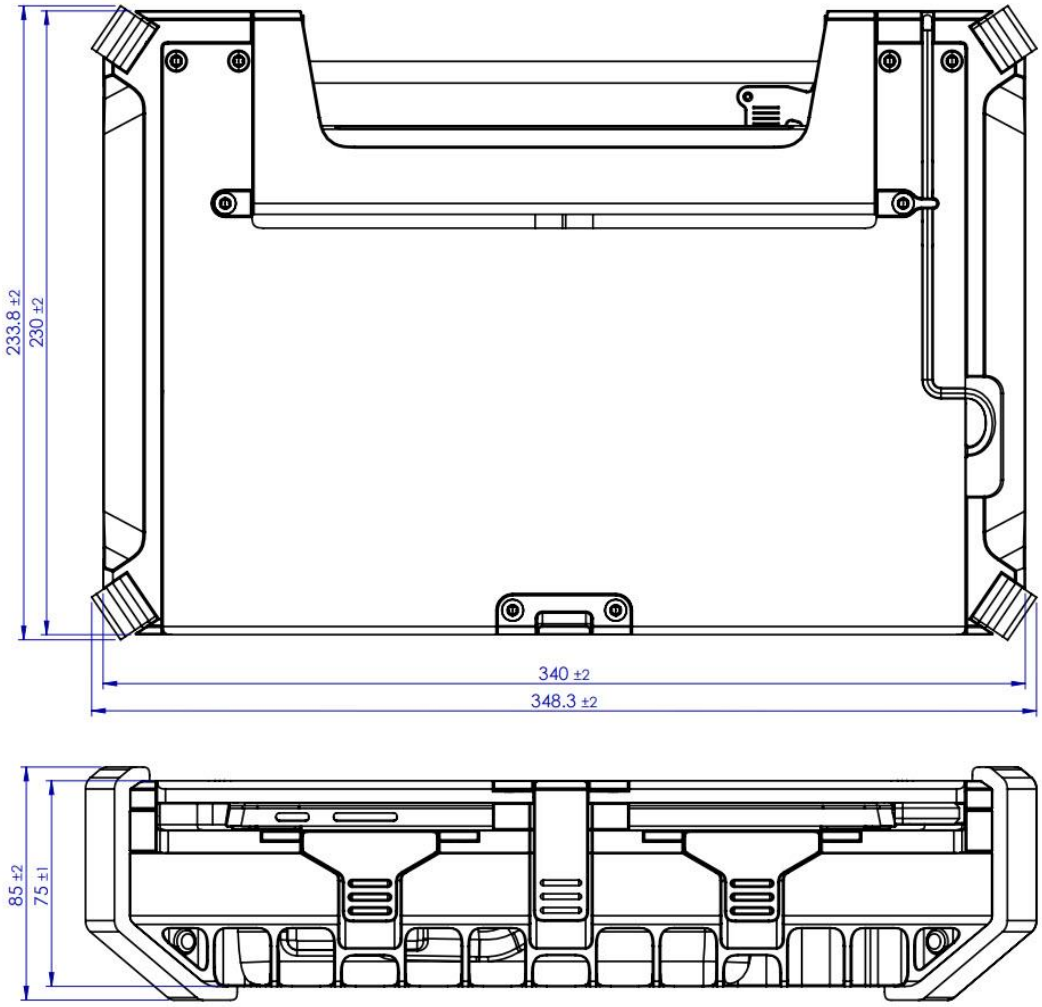
1 Specifications

Operating environment	
Operating temperature	-10—70 °C
Storage temperature	-10—70 °C
Area of use	Light industrial area, office, vehicles
Installation	Connected to laptop and Senseair alcohol screener device
Functional characteristics and performance	
CO_2 Sensor	Sunrise CO_2 sensor as reference sensor and A One Sensor as service sensor
Measure method	Enclosed using reference sensors
User interface	Application based interface
Dimensions	
Weight Senseair Salus	2.2 kg
Dimensions Max (LxWxH)	349 x 234 x 85 mm
Electrical requirements	
Power supply	12VDC
Power consumption	Peak 120W
Tests	
Selectivity	Tested according to EN/(IEC) 61326-1: 2013 and EN IEC 61010-1, section 8.3
EMC	Tested according to EN IEC 61326-1:2021, EN/(IEC) 61326-1: 2013 Electrical equipment, control, and laboratory use – EMC requirements Part, Industrial and train requirements.
Service	
Service interval	12 months

Table 1: Specifications

2 Dimensions



3 Transport and storage

Take normal precautions for transport of sensitive electronic equipment.
Avoid large mechanical forces, vibrations and impacts during transportation of the system.
Store in a dry place, in a temperature -10–70 °C

4 Electrical interface

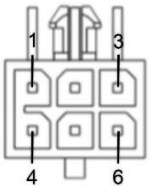
Electric demands	
Power supply Senseair Salus	12VDC @ 10A fused to max 10A
Power supply handset	12VDC @ 8A

Table 2: Electrical interface

5 Connectors

1. Connector to Handset, permanently connected
2. Access box
3. 12V ext. supply
4. Access box I/O and relays

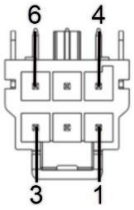
5.1 J4, Handset



Pin	Name	Definition	Input/Output
1	GND	Ground	-
2	GND	Ground	-
3	BOX_CANL	CAN communications to DUT	IN/OUT
4	12V_SUP_DUT	+12VDC power supply to DUT	OUT
5	NC	Not connected	-
6	BOX_CANH	CAN communications to DUT	IN/OUT

Table 3: Pinout for J4 connector

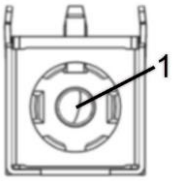
5.2 J8, Access box



Pin	Name	Definition	Input/Output
1	BOX_12VDC	Power supply from Access box	IN
2	GND	Ground	-
3	NC	Not connected	-
4	BOX_CANH	CAN communication to Access box	IN/OUT
5	BOX_CANL	CAN communication to Access box	IN/OUT
6	GND	Ground	-

Table 4: Pinout for J8 connector

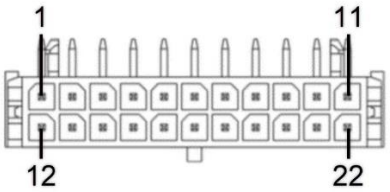
5.3 XA1 PWR, 12V ext. supply



Pin	Name	Definition	Input/Output
1	Positive	+12V	IN
2	Negative	GND	-

Table 5: Pinout for XA1 PWR connector

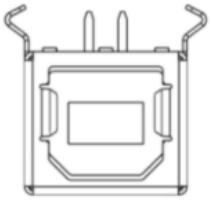
5.4 J3, Access box I/O



Pin	Name	Definition	Input/Output
1	BOX_GPO1	Access box GPIO pin 1	IN/OUT
2	BOX_GPO2	Access box GPIO pin 2	IN/OUT
3	BOX_GPO3	Access box GPIO pin 3	IN/OUT
4	BOX_CAN2_H	Access box CANL	IN/OUT
5	BOX_CAN2_L	Access box CANH	IN/OUT
6	BOX_LIN_H	Access box LINH	IN/OUT
7	BOX_DEBUG_RXD	Access box DBG RX	IN
8	BOX_DEBUG_TXD	Access box DBG TX	OUT
9	RELAY_0A	Access box Relay 0	OUT
10	RELAY_1A	Access box Relay 1	OUT
11	RELAY_2A	Access box Relay 2	OUT
12-22	GND	Ground	-

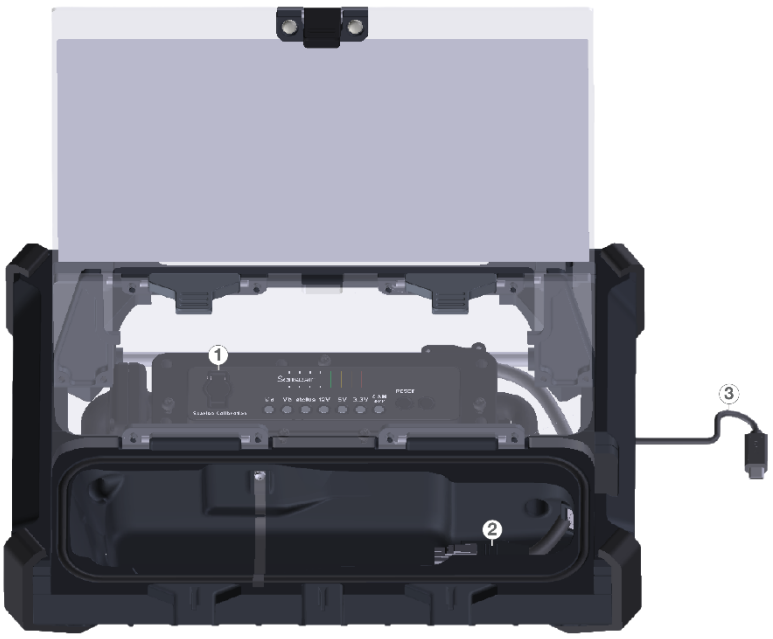
Table 6: Pinout for J3 connector

5.5 J7, USB Host



Pin	Name	Definition	Input/Output
1	VBUS	+5V	IN
2	D-	Data- USB	IN/OUT
3	D+	Data+ USB	IN/OUT
4	GND	Ground	-
5	SHIELD	Shield for USB	OUT

Table 3: Pinout for J7 connector



1. Sunrise calibration
2. Chamber connector
3. USB-C for laptop connection

6 Maintenance interval of equipment

A service is recommended every 12 months and is performed by Senseair personnel. The service includes CO2 sensors calibration and replacement of cabling.

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