

abion

Using technology for
occupational health and
safety management

Breathalyser
BAS-20





Etiloteste
BAS-20

BAS-20 took assisted breathalyzer test screening processes, into autonomous use, through technology and embedded intelligence.



Breathalyser
BAS-20

Developed in Brazil, BAS-20 has user identification through badge or biometrics. This makes its use individual and autonomous. During the screening process, a photo can be registered to audit the tests performed.



Breathalyser
BAS-20

The breathalyzer detection process is WITHOUT ANY CONTACT, both for the badge reading and for alcohol test. The combustion cell EBS-010 is a Class (A) Equipment according to the International production quality certificate E8N 14 02 55975 037.



Breathalyser
BAS-20

- Photo capture while screening process;
- Individual user identification;
- Anamnesis, questions related with use;
- Data analysis from system, managed by different access levels;
- Alert to central when checking and / or changing the combustion cell is needed;

Embedded intelligence will allow actions as for example play an audio according to results.
In case of positive result, please repeat test in 15 minutes.



Breathalyser
BAS-20

- International certifications;
- ACCREDITED National Certification;
- Modular Maintenance;
- Access levels for management and integration software;
- Different and configurable alcohol results levels by group;

Registration data can be captured from other software.

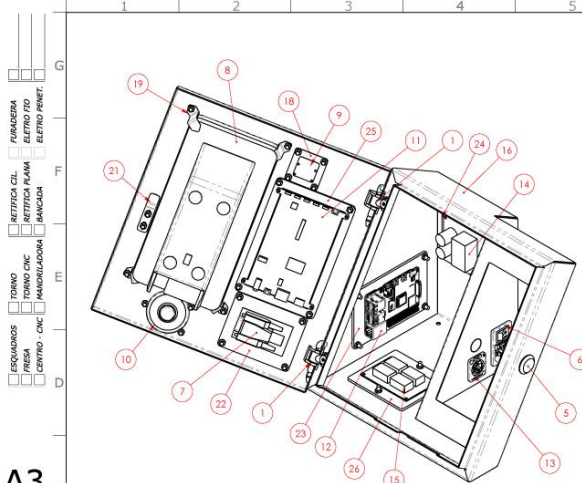
As well as made them available to other Software too.

BAS-20 is the automation of the ALCOLLEMIA management process using the technology of SENTECH EBS-10..

We analyzed the demand of the Brazilian and Latin American market and observed their needs:

- TCP / IP communication in real time;
- Biometrics reading and identification badges for users
- Photo capture while measurement process
- Activation and feedback from external events
- Measurement tolerances regarding different groups of people
- Use of SOFTWARE and APP for remote management
- Keypads for user respons
- Visual and audio messages for user;

- **BAS-20 is born, with Teleworld and SENTECH TECHNOLOGY ..**



ITEM NO.	DESCRIPTION	PART NUMBER	QTY.
1	Dobradiça	TASCO, 91595	2
2	Porca M4	-	29
3	Parafuso M5	DIN7991-M5x12	2
4	Porca M5	427 - Porca M5	2
5	Fecho com chave	Fecho soprano	1
6	Chave geral	Chave com fusível	1
7	Placa leitor	Placa leitor	1
8	Dispositivo leitor de teor de álcool	Batômetro	1
9	Câmera	Camera Raspberry	1
10	Alto falante	SPEAKER 50 mm	1
11	Tela LCD	Waveshare Sinch HDMI LCD RTD2660	1
12	Placa principal	Raspberry Pi 4 Model B	1
13	Conector ethernet	Ethernet_panelMount	1
14	Fonte de alimentação	Fonte alimentação CFM40D	1
15	Placa de conexão	Placa de conexão	1
16	Estrutura gabinete	ESTRUTURA	1
17	Tampa frontal	T-01	1
18	Fixador câmera	T-02	1
19	Fixador batômetro	T-03	4
20	Lingueta fecho	T-05	1
21	Engate lingueta	T-06	1
22	Fixador placa leitor	A-01	1
23	Fixador placa principal	A-02	1
24	Fixador fonte alimentação	A-03	1
25	Fixador tela LCD	A-04	1
26	Fixador placa conexão	A-05	1

NOTA: QUERERAR TODOS CANTOS VIVOS 1X45°

TOLERÂNCIAS NÃO ESPECIFICADAS APPLICAR A NORMA DIN ISO 2768-TS GRADUADO

DESIGNADO POR: CRISTIANO MARQUES ENC. REVISADO: 9/11/2020

PROJETO - ITEM - DESCRIÇÃO: Montagem principal

ESCALA: 1:3

ACABAMENTO: 0,05

ACABAMENTO SUPERFICIAL

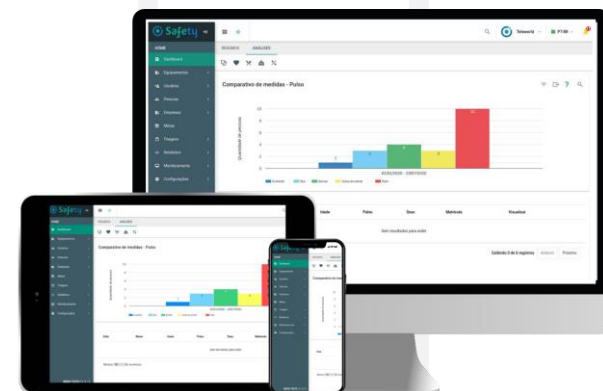


1. Employee uses badge to identify himself.

6. Data is available in the BAS-20 management software.



5. Turnstile is released, and data sent to the access system.



2. System identifies whether measure can be performed
3. If yes, use is permitted
4. Release or not turnstile access, or visually.

Communication

Aferições positivadas e/ou não realizadas poderão ser informadas a central em tela de gerencialmente bem como em APP.

Aferições positivadas:

Serão consideradas as aferições que apresentarem nível álcool diferente de zero, ao usuário será informada mensagem de áudio e visuais. A central de controle será informada em tela o usuário positivado e local da aferição.

Aferições não realizadas:

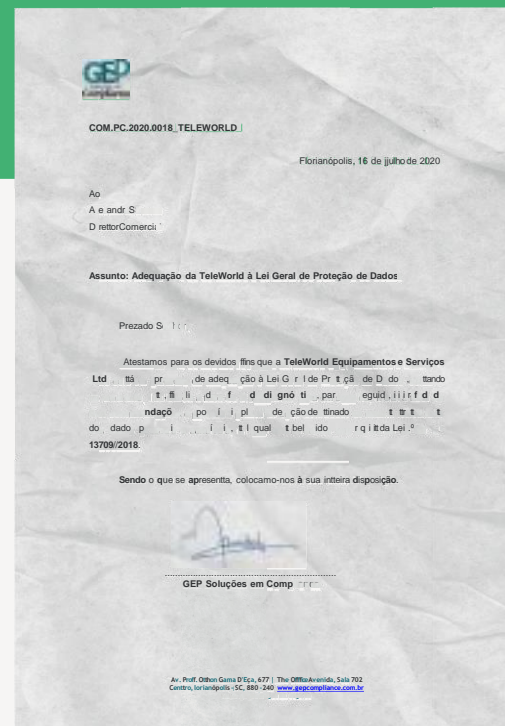
Será possível determinar a periodicidade das aferições e horários. Sendo assim caso o usuário não realize a aferição também será informada a central.



Safety

For the visual confirmation that the user who is performing the screening is the one who passed the badge, the BAS-20 has a photographic record. At the time of blood alcohol measurement, a photo can be captured for auditing.

All system data that travels through our APIs follow the Brazilian and international standards of the LDPR - General Data Protection Regulation.



Data made available at the time of measurement

Registration

Photograph

DD/MM/AAAA HH:MM

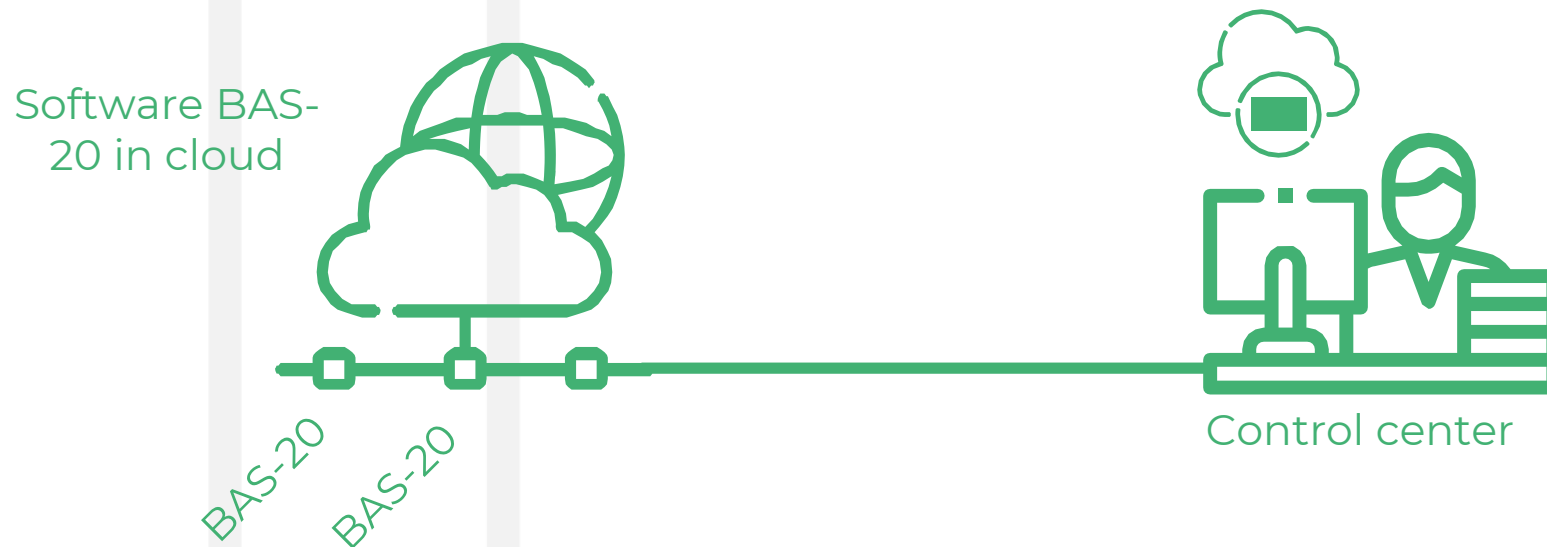
Installation location of the equipment

Positive and negative



Communication:

The BAS-20 has ethernet and Wi-Fi communication, which allows us to manage equipment and screens in a single command center



Features techniques:

- Operating temperature from 5 to 40 degrees;
- Warm up - 3 seconds ~ 4 minutes;
- 3 to 10 second response;
- Calibrated cell with capacity for 10,000 or tests or 12 months of use, whichever comes first;
- 5-inch touch screen;
- Usage guidelines through visual and audio messages;
- TPC / IP WIFI OR ETHERNET (RJ45) connection;
- 8mp camera;
- Food1 / 220;
- Dimension 25x18x19cm;
- Weight 2.3 kilos;

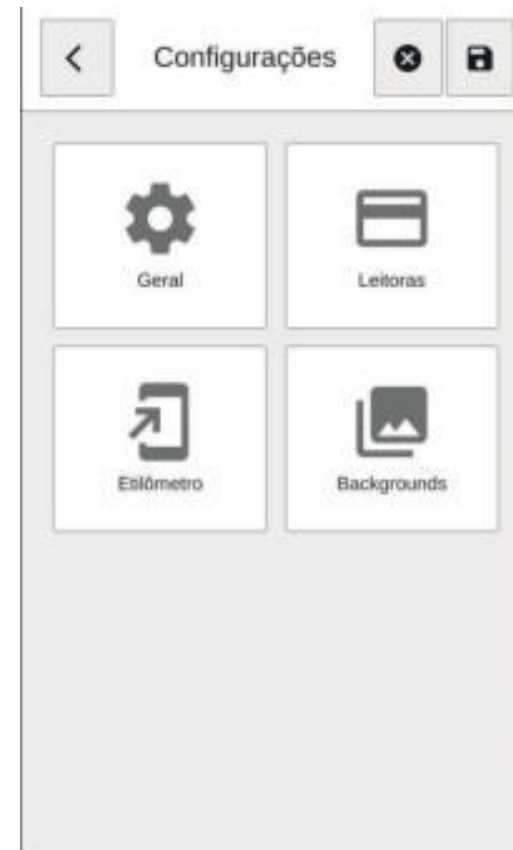
Programming BAS-20

**Easy configuration.
Easy management,
local and remote.**



programming BAS-20

**Easy configuration.
Easy management,
local and remote.**



programming BAS-20

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Integration

Webservices API is a REST API that uses JSON for communication

Authentication is done through a TOKEN JWT, used in each request.

Registration of people:

POST /pessoas/ importar Importa pessoas para plataforma Safety.

Parameters

Name	Description
body <small>required</small>	Lista de pessoas para serem importadas

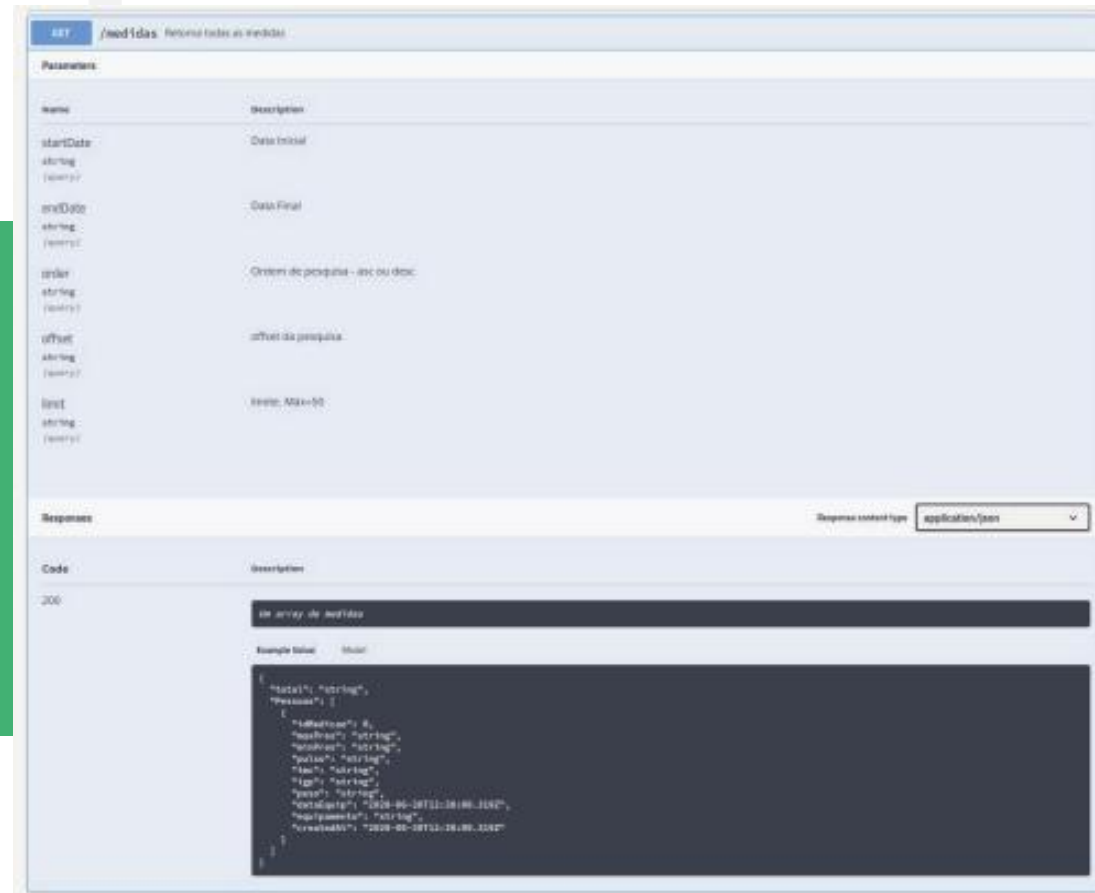
(body)

Example Value	Note
<pre>{ "pessoas": [{ "nome": "string", "matricula": "string", "cracha": "string", "cpf": "string", "datanascimento": "2020-06-30T13:37:11.181Z", "sexo": "M (masculino)", "cargo": "string", "setor": "string", "grupo": "string", "funcao": "string", "real": "string", "pla": "string", "telefone": "string", "rg": "string", "biopedancia": true, "pressao": true, "tpressoar": true }] }</pre>	

Parameter content type

application/json

Results consumption:



API /medidas: Retorna todos as medidas

Parameters:

name	Description
startDate string (query)	Data Inicial
endDate string (query)	Data Final
order string (query)	Ordem de pesquisa - asc ou desc
offset string (query)	offset da pesquisa
limit string (query)	Limite. Max=50

Response: Response content type: application/json

Code: 200 **Description:** Ok array de medidas

Example body:

```

{
  "total": "string",
  "pageable": {
    "pageNumber": 0,
    "pageSize": "string",
    "sort": "string",
    "direction": "string",
    "offset": "string",
    "limit": "string",
    "page": "string",
    "totalPages": "string",
    "totalElements": "2024-05-10T12:38:06.115Z",
    "first": "string",
    "last": "2024-05-10T12:38:06.115Z"
  }
}
    
```

Software de Gerenciamento SAFETY – BAS-20

The screenshot displays two overlapping windows from the SAFETY – BAS-20 software. The top window, titled 'Monitoramento de atividades', shows a table with columns for 'Atividade', 'Status', 'Local de medição', 'Data de medição', and a grid of 17 columns representing different sensors (Sen 0 to Sen 17). The bottom window, titled 'Monitor de acesso', shows a table with columns for 'ID do Sen', 'ID', 'Registros', 'Data de medição', and 'Design', listing various sensor IDs and their associated data.

Atividade	Status	Local de medição	Data de medição	Sen 0	Sen 1	Sen 2	Sen 3	Sen 4	Sen 5	Sen 6	Sen 7	Sen 8	Sen 9	Sen 10	Sen 11	Sen 12	Sen 13	Sen 14	Sen 15	Sen 16	Sen 17
Processamento	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Unidade (Print)	OK	Tela	01/01/2020	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

ID do Sen	ID	Registros	Data de medição	Design
101	101-001-001	1000	01/01/2020	Unidade (Print)
102	101-001-002	1000	01/01/2020	Unidade (Print)
103	101-001-003	1000	01/01/2020	Unidade (Print)
104	101-001-004	1000	01/01/2020	Unidade (Print)
105	101-001-005	1000	01/01/2020	Unidade (Print)
106	101-001-006	1000	01/01/2020	Unidade (Print)
107	101-001-007	1000	01/01/2020	Unidade (Print)
108	101-001-008	1000	01/01/2020	Unidade (Print)
109	101-001-009	1000	01/01/2020	Unidade (Print)

The solution includes software in SaaS which, in addition to equipment management, is responsible for:

- **Dashboard**
- **Monitoring screens**
- **Sweepstakes and screenings**
- **Management reports**
- **Registration of employees and users;**
- **Release and blocking rules;**

Important all in real time.



Thank you!

More information

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