# Technical data

## Display

| | |
|---|---|
| Characters | TFT colour graphic display, 65000 colours, 128 x 160 dots |
| Features | Oxygen saturation, Pulse Rate (PR), plethysmogram, bar graph, short and long term trend |
| Indicators | Signal strength and signal quality, pulse amplitude, battery status, alarm mute, sensor recognition, sensor disconnection |

## Specification

| | | |
|---|---|---|
| Measurement Range | SpO$_2$ | 0 - 100 % |
| | Pulse Rate | 0 - 300 bpm |
| | Perfusion | 0.1 - 30 % (no motion) |
| Accuracy | SpO$_2$ | 60 - 100 % +/- 2 Arms[1] (no motion)<br>60 - 100 % +/- 3 Arms (motion[2] condition)<br>60 - 100 % +/- 2 Arms (low perfusion) |
| | Pulse Rate | 20 - 240 bpm +/- 3 bpm, > 240 bpm +/- 5 bpm (no motion)<br>20 - 240 bpm +/- 5 bpm, > 240 bpm unspecified (motion) |

## Trend information

| | |
|---|---|
| Long term trend | more than 48 hours |
| Short term trend | 15 min/30 min/4 h |

## Language versions

| | |
|---|---|
| Please indicate language version when ordering | Central Europe Version: GB, DE, ES, FR, HU, IT, NL, PL, PT, ZA |
| | Scandinavian Version: GB, DK, FI, SE |
| | Special European Character Version: GB, GR, RU, TR |
| | Asia I: GB, CN, traditional CN |
| | Asia II: GB, JP, KOR |

## Environmental conditions

| | |
|---|---|
| Operation | -20 - 50 °C, 15 - 95 % RH (non-condensing), 600 - 1300 hPa |
| Storage | -30 - 70 °C, 10 - 95 % RH (non-condensing), 600 - 1500 hPa |

## Applied Standards

| | |
|---|---|
| Device incl. sensors | IEC 60601-1:2005 (3rd Ed); IEC 60601-1 (2nd Ed)<br>IEC 60601-1-2:2014 (4th Ed); IEC 60601-1-2 (3rd Ed)<br>EN ISO 80601-2-61:2011; EN ISO 9919:2009<br>ISO 14971:2007; IEC 60601-1-6:2010; IEC 60601-1-11:2010; IEC 60 601-1-8:2006<br>ISO 10993-1:2009; ISO 10993-5:2009; ISO 10993-10:2010 |

## Miscellaneous

| | |
|---|---|
| Dimensions (L x W x D) | 11.8 cm x 6 cm x 2.5 cm |
| Weight | approx. 160 g (including batteries, without sensor) |
| Power supply | 3 batteries (Mignon AA) |
| Battery capacity | > 2 days continuous operation /approx. 4 days in power economy mode |
| Protection class | IP32 |
| Communication interface | USB 2.0 |

## Order information

| | Item order no. | |
|---|---|---|
| OxyTrue® A, complete<br>Please indicate delivery package version when ordering | 1020112001 | **Delivery package standard:**<br>OxyTrue® A, basic device, SC 7500 SMARTsat® soft sensor, PC evaluation software, USB data cable, silicone protector, 3 batteries (Mignon AA), hard shell carry case |

## Accessories

| | Item order no. | |
|---|---|---|
| Carry case | 1020122061 | Device carry case with shoulder strap |
| OxyCharge A/S charger kit, EU | 2020122038 | Charger unit, 12 VDC car adapter, 3 NiMH rechargeable batteries AA, 2100 mAh |
| Other sensors and accesories on request. | | |

[1] A$_{rms}$: +/- 1 Arms represents approx 68 % of measurements
[2] Motion: Tested with selected motion patterns Index II

Specification subject to change

All **OxyTrue® A SpO$_2$ Monitors** including **SoftCap® Sensor** are classified and certified as class IIb products.

For further information, please visit **www.bluepoint-medical.com**

# OxyTrue® A - SpO$_2$ Monitor

## High performance SpO$_2$ without compromises

NEW



» **PRODUCTS** that care
**for you** «

Rubber boot®

SMARTsat®

European Reseach Funding
Europäische Fonds EFRE, ESF und ELER
in Mecklenburg-Vorpommern

Made in Germany

bluepoint M E D I C A L

# OxyTrue® A – Now with SMARTsat® technology! «

» The new **OxyTrue® A** with integrated SMARTsat® technology is the result of the innovative strengths of **bluepoint®** MEDICAL.

The SMARTsat technology platform was developed over the last few years in close cooperation with well-established research institutions and university hospitals.

The very latest and innovative signal processing technologies and algorithms enable precise measurements, even under very difficult physiological conditions. SMARTsat technology has extremely low power consumption.

- Colour TFT-display, with excellent contrast and long life time
- Self-explanatory functions enable intuitive operation
- Automatic suppression of ambient light influences
- 20 language versions available

SMARTsat® has been calibrated within the range of 60 - 100 % SpO$_2$.
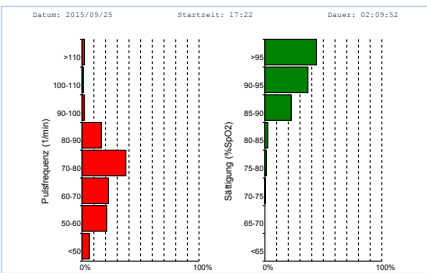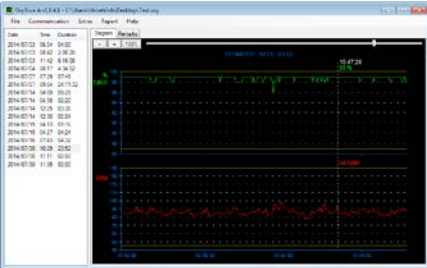
## SMARTsat® ARMS in the SaO$_2$ ranges

| | 100 - 60 % | 100 - 90 % | 90 - 80 % | 80 - 70 % | 70 - 60 % |
|---|---|---|---|---|---|
| SoftCap Softsensor | 1.5 | 1.3 | 1.1 | 1.5 | 2.4 |
| SoftFlap Fingerclip | 1.2 | 1.0 | 1.0 | 1.2 | 2.0 |
| SoftWrap Wrapstyle | 1.5 | 0.9 | 0.9 | 1.7 | 3.2 |
| Disposable Adult | 1.7 | 1.1 | 1.5 | 2.0 | 2.4 |
| Earprobe | 1.3 | 1.3 | 1.4 | 1.3 | 1.7 |

### OxyTrue® A evaluation software

The OxyTrue® A PC-Software is used to download measurement data from the OxyTrue® A device onto your computer via USB interface.

The datasets can be viewed and patient data added. Datasets can be printed or exported as CSV file for processing with additional software.

With the OxyTrue® A PC-Software a static summary report can be generated for each dataset.





# Flexible robust and hygienic

*Bluepoint® MEDICAL provides advanced sensors latest technology which features high quality and comfort.*

**SoftCap® SC/SCM/SCP**



**SoftWrap® W**



Due to its robust design, the SoftCap® and SoftWrap® sensors are well suited for use in the tough environment of rescue services, emergency care and hospital facilities. Reliable elimination of even the most problematic pathogens using highly effective disinfectants.

Bluepoint® Soft Sensors are manufactured from premium materials and their design allows for effective high-level disinfection. This reduces the risk of nosocomial infection associated with surface-borne pathogenic microorganisms.
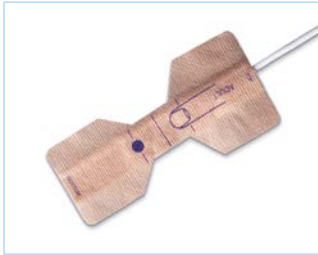
### Additional sensors

**SoftFlap® SF**



SoftFlap® sensors are the ideal solution for ambulatory use, or for long-term monitoring. Advanced manufacturing technologies, materials and design elements found their use in these sensors.

**Ear Sensor EP**



High-quality ear sensor with very pleasant wearing comfort and utility. The ear sensor has an additional sensor holder that prevents the ear sensor while wearing/using slip on the ear or is demolished.

**Disposables**



Disposable sensors with Plaster Tape – high flexibility and adaptability distinguishes this particularly soft material. By the use of Plaster Tapes the sensors are repeatedly re-applied. Avaliable versions for adults, pediatrics, infants and neonates.

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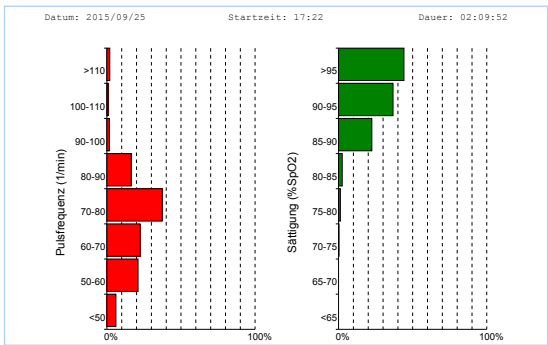
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