

## Technical Data Tel-O-Graph<sup>®</sup> BT

The typical use of the Tel-O-Graph<sup>®</sup> is single blood pressure and pulse measurement on the upper arm. Optionally, pulse wave analysis with different licenses is possible. The values are analyzed by the accompanying HMS-CS software.

### General Performance

Measurement	Oscillometric principle Single blood pressure measurement with automatic transmission
Advanced comfort	IGI (Initially Gradual Inflation): Pressure setting for a gentle measurement SST (Soft Slope Technology): Time adaptation from S-XL sized cuff AF <sup>®</sup> Logic (Auto-Feedback-Logic): Faster and most convenient measurements
PWA option	Calculation via license system Key A: Central blood pressure Key B: Full Pulse Wave Analysis Key C: Central blood pressure + Augmentation Index @75
Communication	Bluetooth
Measurement range	Systolic (SYS): 60 to 290 [mmHg] Diastolic (DIA): 30 to 195 [mmHg] Pulse (Pulse): 30 to 240 BPM (Beats per Minute)
Pressure range	0 - 300 mmHg
NIBP Accuracy	validated according to ISO 81060-2 and BHS (A/A Grading)
Automatic Transmission	After each measurement
Power supply	Internally powered 6 V: Batteries 4 x LR6 or HR6, Size: AA 1,5 V
Operation and control	Display: LCD Display 70 x 72 mm Acoustic: Beeper Panel: 1 Multifunction button
Memory	350 measurements Blood Pressure or 15 measurements Blood Pressure and Pulse Wave Analysis
Battery capacity	>500 measurements (in case of 2 measurements per day with high-grade batteries (alkaline))
Operation temperature	+5°C to +40°C
Operation humidity	15% to 93% relative humidity, non-condensing
Storage temperature	-25°C to +70°C
Storage humidity	15% to 93% relative humidity, non-condensing
Atmospheric Pressure	700 hPa to 1060 hPa
Weight	Approx. 334 g (without batteries)
Dimensions	L 151 mm x W 108 mm x H 57 mm

## Wireless Performance

Bluetooth Chip	Silicon Labs WT11u
Bluetooth Version	Bluetooth v2.1 + EDR (Enhanced Data Rate)
Transmission output power	Bluetooth class 1 radio (Transmit power: 17 dBm)
Infrared transceiver	Range up to 1.5 meters
Data transfer identification	Serial number

## Maintenance Service

- Infrared Interface: Calibration for Blood Pressure Module

## Cuff Sizes

- S: 20 – 24 cm (7.9 – 9.5 inch)
- M: 24 – 32 cm (9.5 – 12.6 inch)
- L: 32 – 38 cm (12.6 – 15 inch)
- XL: 38 – 55 cm (15 – 21.7 inch)

## Applicable Standards & Directives

- Directive 93/42/EEC (MDD) Class IIa, Annex IX, rule 10,
- Directive 2014/53/EU (RED)
- Directive 2011/65/EU (RoHS)
- IEC 60601-1: 2012, IEC 60601-1-2: 2014, IEC 60601-1-6: 2013, IEC 60601-1-11: 2015
- IEC 80601-2-30: 2013
- FCC 47 CFR Part 15
- ETSI EN 301 489-1 V2.1.1 (2017-02)
- ETSI EN 301 489-17 V3.1.1 (2017-02)
- IEEE/ANSI C63.27-2017
- FDA 510(K) (only without PWA option)