

Technical Data Tel-O-Graph® GSM

The typical use of the Tel-O-Graph® 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® 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 GSM

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. 344 g (without batteries)

Dimensions L 151 mm x W 108 mm x H 57 mm

Rev. 19.04.2021



Wireless Performance

GSM Chip Cinterion EHS6

Frequency bands GSM/GPRS/EDGE: Quad band 850/900/1800/1900MHz

UMTS/HSPA+: Five band 800/850/900/1900/2100MHz

Transmission output power Class 1, 3, 4 and E2 (2 W) for 800MHz and 2100MHz

Internet Access Default for APN, User, Password and DNS released by IEM

Infrared transceiver Range up to 1.5 meters

Data transfer identification Serial number

Maintenance Service

• Remote service: Debugging, Transfer status

Data Synchronisation: ADR (Acknowledgment for data receipt by the database) - data integrity (100% service level)

• 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 301 489-52 V1.1.0 (2016-11)
- IEEE/ANSI C63.27-2017
- FDA 510(K) (only without PWA option)