

Accuracy table and Report times

The final report includes the confidence level for several vital signs.
The confidence level indicates the likelihood that the result is within the expected accuracy target, as defined below.

Vital	Range	Unit of measurement	Resolution	Error level
Pulse Rate	50-140	bpm	1	RMSE ≤ 3
Respiration Rate	10-30	rpm	1	RMSE ≤ 3
Blood Pressure Systolic	90-160	mmHg	1	MAE ≤ 15
Blood Pressure Diastolic	50-100	mmHg	1	MAE ≤ 10
Mean RRI	400-1200	ms	1	Mean ≤ 25
Hemoglobin	9-17	g/dL	0.1	MAE ≤ 1.0
Hemoglobin A1C	3.8-8	%	0.01	MAE ≤ 0.5

Confidence level: The confidence level can be either LOW, MEDIUM, or HIGH.

Report timings

A certain amount of data must be collected to calculate valid, accurate results for a vital sign. The amount of required data is different for each vital sign.

*From SDK version 5.5.x, Finger scans (PPG) are deprecated.

Vital Sign	Supported Measurement Types	The appearance of runtime results in seconds since measurement starts (sec)	Required measurement duration to generate a valid final report (sec)
ASCVD Risk	Face	Final report only	35
Blood Pressure	Face, Polar	Final report only	35
Breathing Rate	Face, Polar	23 - Face 17 - Polar	35 - Face 37 - Polar
Heart Age	Face	Final report only	35
Hemoglobin	Face	Final report only	35
Hemoglobin A1c	Face	Final report only	35
High Blood Pressure Risk (replacing “hypertension Risk”)	Face	Final report only	35
High Fasting Glucose Risk	Face	Final report only	35
High HbA1c Risk (replacing “Diabetes Risk”)	Face	Final report only	35
High Total Cholesterol Risk	Face	Final report only	35

LF/HF Ratio	Face, Polar	Final report only	50
Low Hemoglobin Risk	Face	Final report only	35
Mean RRI	Face, Polar	Final report only	35
Normalized Stress Index	Face, Polar	Final report only	35 - Face 50 - Polar
Oxygen Saturation	Face	35	35
Parasympathetic Nervous System Index (PNS Index)	Face, Polar	Final report only	50
Parasympathetic Nervous System Zone (PNS Zone)	Face, Polar	Final report only	50
Pulse Rate	Face, Polar	11 - Face 7 - Polar	20
PRQ	Face, Polar	Final report only	35 - Face 37 - Polar
RMSSD	Face, Polar	Final report only	35
RRI	Face, Polar	Final report only	50
SD1	Face, Polar	Final report only	50

SD2	Face, Polar	Final report only	50
SDNN	Face, Polar	Final report only	35
Stress Index	Face, Polar	Final report only	Face - 35 Polar - 50
Stress Level	Face, Polar	Final report only	Face - 35 Polar - 50
Sympathetic Nervous System Index (SNS Index)	Face, Polar	Final report only	50
Sympathetic Nervous System Zone (SNS Zone)	Face, Polar	Final report only	50
Wellness Index	Face, Polar	Final report only	20
Wellness Level	Face, Polar	Final report only	20

Notes

- Some indicators are calculated when the measurement is completed. They are returned when given that the SDK has enough time to gather the necessary data to calculate them.
- The above numbers refer to a measurement taken according to the best practices without signal-quality issues.
- In case of interruptions or misdetections, the time required for adequate vital signs collection might increase.