

List of Abbreviations

ADA	: American Diabetes Association
AHA	: American Heart Association
AM	: Amplitude Modulation
BGL	: Blood Glucose Level
CE	: Conformité Européenne (European Conformity)
CEG	: Clarke Error Grid
CGMS	: Continuous Glucose Monitoring System
CUSUM	: Cumulative Sum
CI	: Confidence Interval
DCCT	: Diabetes Control and Complications Trial
D-Glucose	: Dextro-Glucose
DM	: Diabetes Mellitus
DSO	: Digital Storage Oscilloscope
EGA	: Error Grid Analysis
EDTA	: Ethylene Di-amine Tetra-acetic Acid
FDA	: Food and Drug Administration
FFT	: Fast Fourier Transform
FM	: Frequency Modulation
FPG	: Fasting Plasma Glucose
GHb	: Glycosylated Hemoglobin
GmbH	: Gesellschaft mit beschränkter Haftung
HbA1c	: Glycated Hemoglobin
IC	: Integrated Circuit
IDF	: International Diabetes Federation
IFG	: Impaired Fasting Glucose
IGT	: Impaired Glucose Tolerance
IMS-BHU	: Institute of Medical Sciences-Banaras Hindu University
IR	: Infra Red
ISO	: International Organization for Standardization
Inc.,	: Incorporation
LASER	: Light Amplification Simulation Emission Radiation
LED	: Light Emitting Diode
MAE	: Mean Absolute Error
%MARE	: Percentage of Mean Absolute Relative Error
MdAE	: Median Absolute Error
%MdARE	: Percentage of Median Absolute Relative Error
MATLAB	: Matrix Laboratory
MIR	: Mid Infra Red

MUS-IR	: Modulated Ultra Sound-Infra Red
NIR	: Near Infra Red
OCT	: Optical Coherence Tomography
OGTT	: Oral Glucose Tolerance Test
PA	: Photo Acoustic
P-BGL	: Predicted-Blood Glucose Level
PBS	: Phosphate Buffer Solution
PP	: Post Prandial
PEG	: Parkes Error Grid
PM	: Phase Modulation
RAD	: Relative Absolute Difference
RBC	: Red Blood Corpuscles
R-BGL	: Reference-Blood Glucose Level
RIGMD	: Reverse Iontophoresis based Glucose Monitoring Device
RMSE	: Root Mean Squared Error
r value	: Correlation Coefficient
SD	: Standard Deviation
SNR	: Signal to Noise Ratio
SEP	: Standard Error of Prediction
TM	: Trade Mark
THb	: Total Hemoglobin
UK	: United Kingdom
UKPSD	: United Kingdom Prospective Diabetes Study
USA	: United States of America
USD	: United States Dollar
US\$: United States Dollar
USR	: Ultra Sound Receiver
UST	: Ultra Sound Transmitter
UV	: Ultra Violet
WHO	: World Health Organization