







Base Parameters:		www.medtach.com	MedTach Pho	one: (289) 644-4985
Abbreviation	Name	Description	Range	Unit
reBAP	Reconstructed Brachial Arterial Pressure	reconstructed brachial pressure from finger pressure waveform	0-300	mmHG
reSYS	reBAP Systolic Pressure	systolic brachial pressure (based on reBAP)	0-300	mmHg
reDIA	reBAP Diastolic Pressure	diastolic brachial pressure (based on reBAP)	0-300	mmHg
reMAP	Mean Arterial Pressure	mean arterial pressure (based on reBAP)	0-200	mmHg
fiAP	Finger Arterial Pressure	finger arterial pressure	0-400	mmHG
fiSYS	FinAP Systolic Pressure	Systolic pressure (from BP signal)	0-400	mmHg
fiDIA	FinAP Diastolic Pressure	Diastolic pressure (from BP signal)	0-400	mmHg
fiMAP	FinAP Mean Arterial Pressure	Mean Arterial pressure (from BP signal)	0-400	mmHg
HR	Heart rate	Pulse rate derived from atrial pressure signal		mmHg
HR AP	AP Heart Rate	Pulse rate derived from atrial pressure signal	0-200	bpm
IBI	Inter Beat interval	derived from BP signal	0-2000	ms
height	Height	Difference between the two sensors on the HCU	-250 to +250	mmHG
PhysioCalActive	PhysioCal active detection	Indicates detection that physioCal calibration algorithm is active (only	0-1	bool
noBeatDetected	no beat detected	for finger pressure) indicates no beats can be detected	0-1	bool

Advanced Hemodynamics Modelflow:

Abbreviation	Name	Description	Range	Unit	
mFLOW	Reconstructed Flow	Model computation of the aortic flow waveform	-10 to +60	l/min	
СО	Cardiac Output	Cardiac Output (= SV*HR), Volume per minute circulated blood	0-50	l/min	
SV	Stroke Volume	Stroke Volume, Volume per beat (integration of mFLOW signal)	0-200	ml	
CI	Cardiac Index	Cardiac output Indexed (= CO/BSA)	0-50	l/min/m²	
SVI	Stroke Volume Index	Stroke Volume Indexed (= SV/BSA)	0-200	mi/m²	
		Parameter of Windkessel model used to reconstruct flow from			
TPR	Total Peripheral Resistance	pressure: Total systemic Peripheral Resistance (Zao + Rp). Used to	0-2 or 5000	mmHg.s/ml or dyn.s/cm⁵/m²	
		reconstruct flow from pressure			
TPRI	Total Peripheral Resistance Index	Peripheral Resistance Indexed (= TPR/BSA)	0-5000	dyn.s/cm⁵/m²	
LVET	Left Ventrical Ejection Time	Left Ventrical Ejection Time	0-2000	ms	
timeUpstroke	upstroke rise-time	Time instant of pressure waveform upstroke		[s] after start of measurment	
dn/dt	Maximal steepness of the current unstroke	Maximal steepness of the current upstroke (time derived of the finger	0-1000	mmHg/s	
up/ut	waxinal steephess of the current apstroke	pressure waveform signal)	0 1000		
		Rate Pressure Product computed as the product of systolic pressure			
RPP	Rate Pressure Product	and pulse rate and is indexed for cardiac oxygen demand per min (=	0-5000	mmHg/min	
		SYS*HR)			

SPTI	Systolic Pressure Time Index	Systolic Pressure Time Index computed as the area under the systolic portion of the arterial pulse, i.e. from the timeUpstroke to the incisura	0-500	mmHg*s
DPTI	Diastolic Pressure Time Index	Diastolic Pressure Time Index computed as the area under the diastolic portion of the arterial pulse, i.e. from the incisura to the next timeUpstroke	0-500	mmHg*s
DPTI/SPTI	DPTI/SPTI	Ratio is an index of cardiac oxygen supply / demand	0-250	%
Zao	Aortic Impedance	pressure: ascending aorta characteristic impedance (Z) at diastolic pressure, impedance of arterial system	0-1	mmHg.s/ml
Cwk	Windkessel Compliance	Parameter of Windkessel model used to reconstruct flow from pressure: Windkessel compliance (C), total arterial compliance at diastolic pressure	0-1000	
RPD	Peripheral Resistance	Parameter of Windkessel model used to reconstruct flow from pressure: peripheral resistance (R), adapts to changes in mean flow	0-5000	dyn.s/cm⁵
maxAortaArea	Maximal surface of aorta	Maximal surface of aorta section based on patient data and flow correction factor	0-1000	mm²
BSA	Body Surface Area	Body Surface Area, the surface area of a patient body, estimated from patient data	0-5	m²

Autonomic No	ervous System Testing			
Abbreviation	Name	Description	Range	Unit
ULF	ULF	Power in ultra-low frequency range	0-5000	ms^2
VLF	VLF	Power in very low frequency range	0-5000	ms^2
LF	LF	Power in low frequency range	0-5000	ms^2
LFNorm	Normalized LF	LF power in normalized units (LF/(Total Power - VLF) * 100)	0-500	arb
HF	HF	Power in high frequency range	0-5000	ms^2
HFNorm	Normalized HF	HF power in normalized units (HF/(Total Power - VLF) * 100	0-500	arb
LF_HF Ratio	LF/HF Ratio	Ratio between LF and HF	0-10	arb
SDNN	SDNN	Standard deviation of all NN intervals	0-500	ms
RMSDD	RMSDD	The square root of the mean of the sum of the squares of differences between adjacent NN intervals	0-500	ms
HRVTI	HRVTI	The total number of all NN intervals divided by the height of the histogram of all NN intervals measured on a didcrete scale with bins of 7.8123 ma (1/128 s)	0-500	arb
PNN50	PNN50	Counts of number of pairs of successive NNs that differ by more than 50 ms divided by the total number of all NN intervals	0-100	%
ТР	ТР	Total Power	0-20000	ms^2
Beat Classification	HRV Beat Classification	Indicates for each beat wheather it is excluded (equales 1) for the use of HRV signalsor not (equals 0)	0-1	arb
BRS	Baroreflex Sensitivity	Baroreflex Sensitivity calculated using a cross correlation method (xBRS)	0-50	ms/mmHg

ECG				
Abbreviation	Name	Description	Range	Unit
ECG I	ECG I	Einthoven lead I ECG waveform	-4 to +4	mV
ECG II	ECG II	Einthoven lead II ECG waveform	-4 to +4	mV
ECG III	ECG III	Einthoven lead III ECG waveform	-4 to +4	mV
ECG aVF	ECG aVF	Augmented Vector Foot ECG waveform	-4 to +4	mV
ECG aVL	ECG aVL	Augmented Vector Left ECG waveform	-4 to +4	mV
ECG aVR	ECG aVR	Augmented Vector Right ECG waveform	-4 to +4	mV
ECG C1	ECG C1	Wilson Chest ECG waveform	-4 to +4	mV
Resp Wave	Respiration Waveform	Respiration waveformderived from chest impedancemeasurment (via optional respiration module)	0-255	
Resp Rate	Respiration Rate	Respiration rate (via optional respiration module)	5-99	rpm
HR ECG	ECG Heart Rate	Heart rate derived from the ECG waveform	30-250	bpm
RR-int	RR-interval	Time between two successive R peaks in the ECG waveform	240-2000	ms
Pacing	Pacing Detection	Indication of the detected pacing pulses in time	0-1	
* If a 3 lead cable	is connected, only one ECG lead can b	e measured: ECG I, ECG II or ECG III		

** The respiration waveform and respiration rate are only available if the optional respiration module is present in the Finapres NOVA