

Rembrandt Report Elements

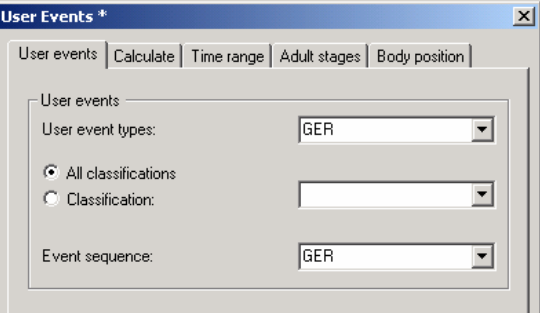
A list of possible report elements in AnalysisManager 7.1.8

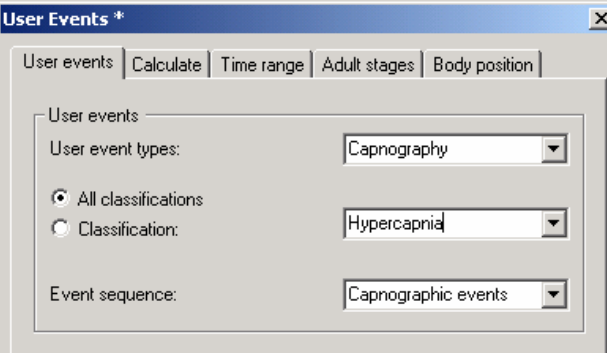
Note: It is assumed that the scoring of the recording starts not later than the epoch of Lights Off and does not end before Lights On.

Name of the Report Element	Definition								
Definable*:									
<p>Definable Signals are report elements that are based on calculations on the raw signals with an output that depends on the choice from several definable parameters, concerning analysis range, combinations with sleep stages and combinations with body positions. Choices are:</p> <p>Analysis range <i>Lights off – Lights on</i> <i>Sleep onset – End of sleep</i> <i>All periods with CPAP pressure on</i> <i>All periods with CPAP pressure off</i> <i>In a period with a specific CPAP index, indicating a consecutive change in CPAP pressure</i></p> <p>Sleep stages <i>All sleep stages (Wake, S1, S2, S3, S4, REM, MT, No score + unscored)</i> <i>During specified sleep stages</i></p> <p>Body Position <i>All body positions</i> <i>In specified body positions</i></p>									
Signals									
Advanced Signal Time Table	Table with the number of minutes and the percentage of time that a specific signal has a certain value. The range of signal values and the bin width that is used in the table are user defined.								
Signal Statistics	<p>The following statistics can be calculated for any defined digital signal:</p> <table border="0"> <tr> <td><i>mean</i></td> <td>- mean value of the signal over the specified time window</td> </tr> <tr> <td><i>max</i></td> <td>- maximum value of the signal over the specified time window</td> </tr> <tr> <td><i>min</i></td> <td>- minimum value of the signal over the specified time window</td> </tr> <tr> <td><i>standard deviation</i></td> <td>- variation of the signal over the specified time window</td> </tr> </table> <p>A valid signal range can be specified for which these values have to be calculated in the Valid Signal Range tab. This has to be enabled with a tick mark before Enable Range.</p>	<i>mean</i>	- mean value of the signal over the specified time window	<i>max</i>	- maximum value of the signal over the specified time window	<i>min</i>	- minimum value of the signal over the specified time window	<i>standard deviation</i>	- variation of the signal over the specified time window
<i>mean</i>	- mean value of the signal over the specified time window								
<i>max</i>	- maximum value of the signal over the specified time window								
<i>min</i>	- minimum value of the signal over the specified time window								
<i>standard deviation</i>	- variation of the signal over the specified time window								
Definable events*:									
<p>Definable events are report elements about events with an output that depends on the choice from several definable parameters, concerning analysis range, combinations with sleep stages and combinations with body positions. Choices are:</p> <p>Analysis range <i>Lights off – Lights on</i> <i>Sleep onset – End of sleep</i> <i>All periods with CPAP pressure on</i> <i>All periods with CPAP pressure off</i> <i>In a period with a specific CPAP index, indicating a consecutive change in CPAP pressure</i></p> <p><i>Sleep stages</i></p>									

<p><i>All sleep stages (Wake, S1, S2, S3, S4, REM, MT, No score + unscored) During specified sleep stages</i></p> <p>Body Position <i>All body positions In specified body positions</i></p> <p>Each event can be displayed in several ways, like as an index or as the number of events. Possible choices are described with each event type below.</p> <p>An example of a definable event is: Adding "Definable events/Respiration/Obstructive Apneas" to the selected report element list displays the following dialog</p> <p>Choosing the analysis range Lights off/ Lights on, display type Event count, found in all sleep stages and in all positions will give as result the number of obstructive apneas in stage Wake, 1, 2, 3, 4, REM, MT and No score+unscored, found irrespective of the body position.</p>	
Arousal	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of arousals per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of arousals</p> <p><i>Standard deviation</i> - variation in number of arousals</p> <p><i>Mean duration</i> - mean duration of all arousal events</p> <p><i>Duration longest event</i> - duration of the longest arousal event</p>
All Arousals	All arousal events
Apnea Arousals	Arousal events associated with apnea
Desaturation Arousals	Arousal events associated with a desaturation
Hypopnea Arousals	Arousal events associated with hypopnea
Limb Movement Arousals	Arousal events associated with a limb movement
Periodic Limb Mov. Arousals	Arousal events associated with a periodic limb movement
Resp Limb Mov. Arousals	Arousal events associated with apnea/hypopnea and limb movements
Snore Arousals	Arousal events associated with snoring
Spontaneous Arousals	Spontaneous arousals not associated with any other type of event
Body position	<p>Body position events can only be displayed as the number of minutes in a specified position</p>
Abdomen	Number of minutes in position: abdomen
Back	Number of minutes in position: back
Left	Number of minutes in position: left
Right	Number of minutes in position: right
Up	Number of minutes in position: up
Desaturation	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of desaturation events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of desaturation events</p> <p><i>Standard deviation</i> - variation in number of events</p> <p><i>Mean duration</i> - mean duration of all events</p> <p><i>Duration longest event</i> - duration of the longest detected event</p> <p><i>Events below ...%</i> - number of desaturations below a</p>

	<p>SaO2 level of a specified percent</p> <p>Total duration below ...%- number of seconds the desaturation events are below a specified percent</p> <p>Longest duration below...%- duration in number of seconds of the longest desaturations event</p> <p>Shortest duration - duration of the shortest desaturation event in seconds</p> <p>Lowest SaO2 level - the SaO2 level in percentage of the lowest desaturation event</p>
Desaturations	All desaturation events
Heart Rate	<p>Brady/Tachycardia events can be displayed as:</p> <p>Index - number of heart rate events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p>Event count - number of heart rate events</p> <p>Standard deviation - variation in number of heart rate events</p> <p>Mean duration - mean duration of heart rate events</p> <p>Duration longest event - duration of the longest heart rate event</p> <p>Heart Rate Details can be displayed as:</p> <p>Mean - mean value of the heart rate</p> <p>Max - maximum value of the heart rate</p> <p>Min - minimum value of the heart rate</p> <p>Standard deviation - standard deviation of the heart rate values</p>
Bradycardias	All bradycardia events
Heart Rate Details	Mean, maximum, minimum value and standard deviation of the values of the heart rate
Tachycardias	All tachycardia events
Limb Movement	<p>Each event can be displayed as:</p> <p>Index - number of limb movement events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p>Event count - number of limb movement events</p> <p>Standard deviation - variation in number of limb movement events</p> <p>Mean duration - mean duration of limb movement events</p> <p>Duration longest event - duration of the longest limb movement event</p>
LM Both	Number of limb movements in both limbs
LM Left	Number of limb movements in left limb
LM Right	Number of limb movements in right limb
PLM Both	Number of periodic limb movements in both limbs
PLM Left	Number of periodic limb movements in left limb
PLM Right	Number of periodic limb movements in right limb
PLM Sequence	Number of periodic limb movement sequences
RRLM Both	Number of respiratory related limb movements for both limbs
RRLM Left	Number of respiratory related limb movements for left limb
RRLM Right	Number of respiratory related limb movements for right limb

<p>Gastroesophageal Reflux (GER, pH)</p>	<p><i>In version 7.1 there is no direct gastroesophageal report element. Definable events/User events has to be used instead. In the User Events dialog the event type (e.g. GER) and event sequence where the analysed events have been stored has to be defined.</i> <i>The classification reports separately for the alkalotic and acidotic events (de thresholds for these events are defined in the analysis). If 'All classifications' is used all reflux events are reported.</i></p>  <p>Each event can be displayed as:</p> <p><i>Index</i> - number of reflux events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of reflux events</p> <p><i>Standard deviation</i> - variation in number of reflux events</p> <p><i>Mean duration</i> - mean duration of reflux events</p> <p><i>Duration longest event</i> - duration of the longest reflux event</p>
<p>Respiration</p>	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of respiration events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of respiration events</p> <p><i>Standard deviation</i> - variation in number of respiration events</p> <p><i>Mean duration</i> - mean duration of respiration events</p> <p><i>Duration longest event</i> - duration of the longest respiration event</p> <p>Phase and respiratory rate events can be displayed as:</p> <p><i>Mean</i> - mean value</p> <p><i>Max</i> - maximum value</p> <p><i>Min</i> - minimum value</p> <p><i>Standard deviation</i> - standard deviation of the values</p>
<p>All Apneas</p>	<p>All apnea (obstructive, central and mixed) events</p>
<p>All Hypopneas</p>	<p>All hypopnea (obstructive, central and mixed) events</p>
<p>Central Apneas</p>	<p>Number of central apnea events</p>
<p>Central Hypopneas</p>	<p>Number of central hypopnea events</p>
<p>Mixed Apneas</p>	<p>Number of mixed apnea events</p>
<p>Mixed Hypopneas</p>	<p>Number of mixed hypopnea events</p>
<p>Obstructive Apneas</p>	<p>Number of obstructive apnea events</p>
<p>Obstructive Hypopneas</p>	<p>Number of obstructive hypopnea events</p>
<p>Phase</p>	<p>Mean value of the phase events</p>

<p>Respiratory Rate</p> <p><i>Resp. rate is only calculated on the basis of the old apnea analysis. It assumes a peak-and-troughs event trace</i></p>	<p>Mean value of the respiratory rate</p> <p>NOTE: The respiratory rate is calculated by default from the analysis results of the flow signal. You can change this to the thorax or abdomen signal. This has to be done before the analysis of the respiratory signals. In the Respiratory dialog click NEW or EDIT in the Algorithm settings pane. At the bottom of the Algorithm Setting Respiratory Event Classification you can choose the input signal for the respiratory and sigh analysis.</p>
<p>Sighs</p> <p><i>Only available in the old respiratory analysis</i></p>	<p>Number of sighs</p> <p>NOTE: The number of sighs is calculated by default from the analysis results of the flow signal. You can change this to the thorax or abdomen signal. This has to be done before the analysis of the respiratory signals. In the Respiratory dialog click NEW or EDIT in the Algorithm settings pane. At the bottom of the Algorithm Setting Respiratory Event Classification you can choose the input signal for the respiratory and sigh analysis.</p>
<p>Capnography</p>	<p><i>In version 7.1 there is no direct capnography element. Definable events/User events has to be used instead. In the User Events dialog the event type (Et CO2) and event sequence where the analysed events have been stored has to be defined.</i></p> <p><i>The classification reports the number of events with a specific value (in the case of EtCO2) or the number of hyper- or hypocapnia events).</i></p>  <p>Each event can be displayed as:</p> <ul style="list-style-type: none"> <i>Index</i> - number of respiration events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60 <i>Event count</i> - number of respiration events <i>Standard deviation</i> - variation in number of respiration events <i>Mean duration</i> - mean duration of respiration events <i>Duration longest event</i> - duration of the longest respiration event
<p>Hypercapnia</p>	<p>Number of hypercapnic events (available via Definable events/User events)</p>
<p>Obstructive hypoventilation (OHV) events</p>	<p>Number of OHV events (available via Definable events/User events)</p>
<p>Peak obstructive hypoventilation (OHV) events</p>	<p>Number of peak OHV events (available via Definable events/User events)</p>
<p>EtCO2 signal statistics</p>	<p>Mean, max, min and stand. deviation of the EtCO2 signal via Definable/Signals/Signal statistics</p>

Snoring	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of snoring events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of snoring events</p> <p><i>Standard deviation</i> - variation in number of respiration events</p> <p><i>Mean duration</i> - mean duration of respiration events</p> <p><i>Duration longest event</i> - duration of the longest respiration event</p>
Snore Events	Number of snore events
User Events	<p>User definable events can be entered in the Signal Window and stored in a specific User event trace. Information about specific classifications within each event trace can be displayed separately.</p> <p>Each event can be displayed as:</p> <p><i>Index</i> - number of user events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of user events</p> <p><i>Standard deviation</i> - variation in number of user events</p> <p><i>Mean duration</i> - mean duration of user events</p> <p><i>Duration longest event</i> - duration of the longest usevent</p>
User Events	Number of user events
External report elements	External report elements are not a part of the main program, but can be plugged in the main program of Analysis Manager depending on the configuration of the user.
Full Night	
Compare scoring	<p>The score comparison module compares the scoring of sleep stages and events by two different raters. For each event type a comparison can be made independent of the event type classification or for each classification separate.</p> <p>NOTE: The score comparison module needs 2 event traces, one for each of the two raters, for each comparison. After making a new report, using a score comparison template, the two event traces that will be used for the comparison have to be specified</p>
Compare module version	The version of the comparison module
Matched event table	A table for each event type with the matched scores by the two raters for the various events belonging to that event type
Matched events	Percentage agreement between two raters of an event
Stage score	A table with the matched scores by the two raters of the sleep stage classification
Events	
Overview	A plot in the report of each event trend in the Overview Window. The mode of display of the event trend can be defined in a similar dialog as the dialog in the Overview Window
Version	<i>For internal use</i>
Full night:	Displays the total number of events between Lights Off and Lights On
Events	

Arousal	
#All Arousals	Total number of arousal events between Lights Off and Lights On
#Apnea Arousals	Total number of apnea related arousal events between Lights Off and Lights On
#Desaturation Arousals	Total number of desaturation related arousal events between Lights Off and Lights On
#Hypopnea Arousals	Total number of hypopnea related arousal events between Lights Off and Lights On
#Limb Movement Arousals	Total number of limb movement related arousal events between Lights Off and Lights On
#Period. Limb Mov. Arousals	Total number of periodic limb movement related arousal events between Lights Off and Lights On
#Resp Limb Mov. Arousals	Total number of respiratory and limb movement related arousal events between Lights Off and Lights On
#Snore Arousals	Total number of snoring related arousal events between Lights Off and Lights On
#Spontaneous Arousals	Total number of spontaneous arousal events between Lights Off and Lights On
Desaturation	
#All Desaturations	Total number of desaturation events between Lights Off and Lights On
Mean SaO2 level	Mean level of the blood oxygen saturation signal between Lights Off and Lights On
Saturation Drop Table	Table with, per 5% drop in oxygen saturation, the number of desaturation events per hour and the total number of desaturations, calculated between Lights Off and Lights On
Heart Rate	
Bradycardias	Total number of bradycardia events between Lights Off and Lights On
Highest Heart Rate	The highest heart rate between Lights Off and Lights On
Lowest Heart Rate	The lowest heart rate between Lights Off and Lights On
Mean Heart Rate	The mean heart rate between Lights Off and Lights On
Tachycardias	Total number of tachycardia events between Lights Off and Lights On
Time Table Heart Rate	Table with, per 10 BPM increase in heart rate, the number of minutes and the percentage of time the heart rate is within the specific heart rate bin. The table is calculated between Lights Off and Lights On
Variability	<i>Variation in heart rate variables are based on the report of the Cardiology Task Force, published in Circulation 1996, Vol. 93(5). In the methods the detection of NN (normal to normal) intervals are used, that is all intervals between adjacent QRS complexes.</i>
HRV Triangular Index	The total number of NN intervals divided by the number of NN intervals at the maximum in the NN density distribution, existing of all NN intervals. This is calculated between Lights Off and Lights On

NN50	Number of successive NN interval differences that exceed 50 msec. This is calculated between Lights Off and Lights On
pNN50	Number of successive NN interval differences that exceed 50 msec. divided by total number of NN intervals. This is calculated between Lights Off and Lights On
RMS-SD	Square root of the mean squared number of successive NN interval differences. This is calculated between Lights Off and Lights On
SD heart rate	Square root from variance heart rate, calculated on NN intervals. This is calculated between Lights Off and Lights On
SDANN	Square root from variance heart rate, calculated on NN intervals over periods of 5 minutes. This is calculated between Lights Off and Lights On
SDNN	Square root from variance heart rate, calculated on NN intervals. This is calculated between Lights Off and Lights On
SDNN index	Mean of the 5-minute standard deviations of NN intervals, calculated over 24 hours. This is calculated between Lights Off and Lights On
Variance heart rate	$SUM(1/NN_i - \text{mean}(1/NN))^2 / (n-1)$ This is calculated between Lights Off and Lights On
<i>Limb Movement</i>	
#LM Both	Number of limb movements in both limbs calculated between Lights Off and Lights On
#LM Left	Number of limb movements in left limb calculated between Lights Off and Lights On
#LM Right	Number of limb movements in right limb calculated between Lights Off and Lights On
PLM Both	Number of periodic limb movements in both limbs calculated between Lights Off and Lights On
PLM Left	Number of periodic limb movements in left limb calculated between Lights Off and Lights On
PLM Right	Number of periodic limb movements in right limb calculated between Lights Off and Lights On
PLM Sequence	Number of periodic limb movement sequences calculated between Lights Off and Lights On
RRLM Both	Number of respiratory related limb movements for both limbs calculated between Lights Off and Lights On
RRLM Left	Number of respiratory related limb movements for left limb calculated between Lights Off and Lights On
RRLM Right	Number of respiratory related limb movements for right limb calculated between Lights Off and Lights On
LM Index	Number of limb movements per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60
PLM Index	Number of periodic limb movements per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60
RRLM Index	Number of respiratory related limb movements per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60

Respiration	
All Apneas	All apnea (obstructive, central and mixed) events calculated between Lights Off and Lights On
All Hypopneas	All hypopnea (obstructive, central and mixed) events calculated between Lights Off and Lights On
Central Apneas	Number of central apnea events calculated between Lights Off and Lights On
Central Hypopneas	Number of central hypopnea events calculated between Lights Off and Lights On
Mixed Apneas	Number of mixed apnea events calculated between Lights Off and Lights On
Mixed Hypopneas	Number of mixed hypopnea events calculated between Lights Off and Lights On
Obstructive Apneas	Number of obstructive apnea events calculated between Lights Off and Lights On
Obstructive Hypopneas	Number of obstructive hypopnea events calculated between Lights Off and Lights On
Apnea+Hypopnea Index	Number of apnea and hypopnea events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60
Central apnea total time	Total time in minutes in central apnea
Mean phase	Mean difference in absolute phase (in degrees) between two signals between Lights Off and Lights On
Phase time table	Table with the number of minutes and the percentage of time that the difference in phase between 2 signals has a certain value between Lights Off and Lights On. The bin width is 20 degrees.
Respiratory rate histogram	Table with the number of minutes and the percentage of time that the respiratory rate has a certain value between Lights Off and Lights On. The bin width is 5 Beats per min
Snoring	
# Snore Events	Number of snore events between Lights Off and Lights On
Signals	
Saturation Time Table	Table with the number of minutes and the percentage of time that the SaO2 signal has a certain value for each bin width of 5%.
Statistics	<p>The following statistics can be calculated for any defined digital signal between Lights Off and Lights On:</p> <p><i>mean</i> - mean value of the signal over the specified time window</p> <p><i>max</i> - maximum value of the signal over the specified time window</p> <p><i>min</i> - minimum value of the signal over the specified time window</p> <p><i>standard deviation</i> - variation of the signal over the specified time window</p>
Sleep parameters	
Depression parameters	
REM-C	Average duration of REM/nonREM cycle. (This is the

	ratio of SPT minus REM-latency divided by (REM period – 1). New definition: Time between the start of the first and the last REM period divided by (REM-period – 1)
Rem-Period Count	The number of REM periods, whereby the first REM period has to last for at least 3 minutes and subsequent REM periods have to last for at least 5 minutes. Interruption of a REM period by non-REM sleep, wakefulness or movement time may not last more than 15 minutes.
REM-Total Time	The total time in minutes spent in REM sleep.
End of Sleep	User defined end of sleep in hrs:min:sec
Final Awakening	Number of minutes between End of Sleep and Lights On
Lights Off	User defined start of the night period (usually imported from DataLab)
Lights On	User defined end of the night period (usually imported from DataLab)
Number of REM periods	Number of REM periods in Time in Bed, calculated from the REM cycles markers that were set by the user
Sleep Efficiency on SPT	(Total sleep time / Sleep period time)*100
Sleep Efficiency on TIB	(Total sleep time / Total time in Bed)*100
Sleep Fragmentation time	Sleep Period Time / Number of Intermittent awakenings
Sleep Onset	User defined start of sleep
Sleep Period time	Duration from Sleep Onset to Final Awakening with exclusion of epochs “No Score”
Stage durations	
MT	Number of minutes in Movement Time between Lights Off and Lights On
No Score	Number of minutes in No Score (no sleep stage or MT assigned) between Lights Off and Lights On
REM	Number of minutes in REM between Lights Off and Lights On
Stage 1	Number of minutes in Stage 1 between Lights Off and Lights On
Stage 2	Number of minutes in Stage 2 between Lights Off and Lights On
Stage 3	Number of minutes in Stage 3 between Lights Off and Lights On
Stage 4	Number of minutes in Stage 4 between Lights Off and Lights On
Unscored	Number of minutes in Unscored (sleep stage scoring not applied) between Lights Off and Lights On
Wake	Number of minutes in Wake stage between Lights Off and Lights On
Stage durations/SPT	
MT/SPT	Number of minutes in Movement Time between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
No Score/SPT	Number of minutes in No Score (no sleep stage or MT

	assigned) between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
REM/SPT	Number of minutes in REM between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage 1/SPT	Number of minutes in Stage 1 between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage 2/SPT	Number of minutes in Stage 2 between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage 3/SPT	Number of minutes in Stage 3 between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage 4/SPT	Number of minutes in Stage 4 between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Unscored/SPT	Number of minutes in in Unscored (sleep stage scoring not applied) between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Wake/SPT	Number of minutes in stage Wake between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage durations/TIB	
MT/TIB	Number of minutes in Movement Time between Lights Off and Lights On divided by the Time in Bed multiplied by 100
No Score/TIB	Number of minutes in No Score (no sleep stage or MT assigned) between Lights Off and Lights On divided by the Time in Bed multiplied by 100
REM/TIB	Number of minutes in REM between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage 1/TIB	Number of minutes in Stage 1 between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage 2/TIB	Number of minutes in Stage 2 between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage 3/TIB	Number of minutes in Stage 3 between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage 4/TIB	Number of minutes in Stage 4 between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Unscored/TIB	Number of minutes in Unscored (sleep stage scoring not applied) between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Wake/TIB	Number of minutes in Wake stage between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage durations/TST	
MT/TST	Number of minutes in Movement Time between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
No Score/TST	Number of minutes in No Score (no sleep stage or MT assigned) between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
REM/TST	Number of minutes in REM between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100

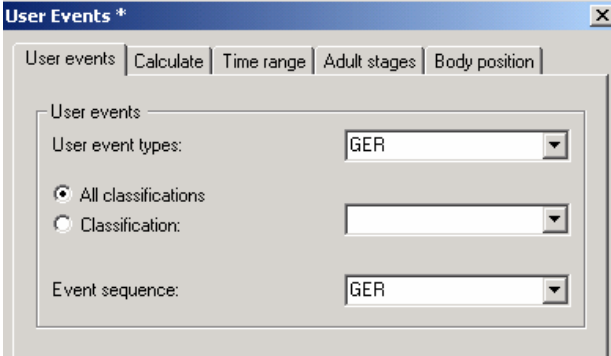
Stage 1/TST	Number of minutes in Stage 1 between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Stage 2/TST	Number of minutes in Stage 2 between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Stage 3/TST	Number of minutes in Stage 3 between Lights Off and Lights On by the Total Sleep Time multiplied by 100
Stage 4/TST	Number of minutes in Stage 4 between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Unscored/TST	Number of minutes in Unscored (sleep stage scoring not applied) between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Stage latencies	
REM cycle	Duration from Sleep Onset to the first epoch of REM within the first REM cycle
REM latency/SO	Duration from Sleep Onset to the first epoch of REM sleep
Sleep Onset latency	Duration from Lights Off to the first epoch of Stage 2
Stage 1 latency/Lights Off	Duration from Lights Off to the first epoch of Stage 1
Stage 2 latency/Lights Off	Duration from Lights Off to the first epoch of Stage 2
Stage 3 latency/SO	Duration from Sleep Onset to the first epoch of Stage 3
Stage 4 latency/SO	Duration from Sleep Onset to the first epoch of Stage 4
Wake latency/SO	Duration from Sleep Onset to the first epoch of Stage Wake
Time in Bed	Duration from Lights Off to Lights On with exclusion of epochs "No Score"
Total Sleep Time	Accumulated number of minutes in stages 1, 2, 3, 4, REM and MT from Lights Off to Lights On
Wake parameters	
Awakenings > X min	Number of awakenings with a duration longer than X minutes between Lights Off and Lights On
Awakening Index (AWI)	Number of awakenings per hour asleep (defined as the number of awakenings in the Sleep Period Time divided by the SPT and multiplied by 60)
Intermittent Awakenings (NIW)	Number of awakenings during the Sleep Period Time
Number of Awakenings (NW)	Number of awakenings between Lights Off and Lights On
Total Time Awake	Total number of minutes in stage Wake, MT and No score between Sleep Onset and End of Sleep.
Wake after Sleep	Total number of minutes in stage Wake between End of Sleep and Lights On.
Wake after Sleep Onset	Total number of minutes in stage Wake between Sleep Onset and Lights On.
Wake before Sleep	Total number of minutes in stage Wake between Lights Off and Sleep Onset.
Wake during Sleep	Total number of minutes in stage Wake between Sleep Onset and End of Sleep.
GENERAL:	
Analysis Manager Version	Version number of the current Analysis Manager program
HYPNOGRAMS:	Various display modes of the hypnogram are possible: REM, Wake, 1, 2, 3, 4, MT, No score Wake, REM, 1, 2, 3, 4, MT, No score Wake, 1, 2, 3, 4, REM, MT, No score

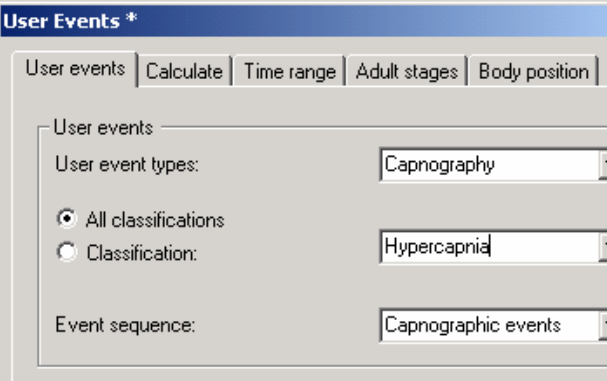
	<i>Wake, I, REM, 2, 3, 4, MT, No score</i>
Stage hypnogram	Adult hypnogram
MSLT:	
Number of naps sleep was achieved	Number of naps in the MSLT with at least one epoch of sleep (Stage 1, 2, 3, 4 or REM)
Number of naps with REM	Number of naps in the MSLT with at least one epoch of REM
Number of naps with S3 or S4	Number of naps in the MSLT with at least one epoch of Stage 3 or Stage 4
Num. of naps with Sleep Onset REM	Number of naps in the MSLT with REM latency shorter than 15 minutes
Sleep parameters per nap	
Lights Off per nap	User defined start of the nap period (usually imported from DataLab)
Lights On per nap	User defined end of the nap period (usually imported from DataLab)
REM latency per nap	Duration from Sleep Onset to the first epoch with REM sleep, whereby Sleep Onset in nap is defined by either the occurrence of the first Stage 1 or the first stage REM
Sleep latency (S1) per nap	Duration from Lights Off to the first epoch of Stage 1 in each nap
Time in Bed per nap	Duration from Lights Off to Lights On in nap, with exclusion of epochs "No score"
Total sleep time per nap	Accumulated number of minutes Stage 1, 2, 3, 4, REM and MT within a nap
Total number of naps	Number of naps within one MSLT-session
PATIENT INFORMATION:	
Address	
Address	Street and house number of the patient
City	Name of home town of the patient
Phone number	Phone number of the patient
Postal Code	Postal code of the patient
Age	Age of the patient on the day of the recording
Birth weight	Weight in kg at birth
Birth weight (US)	Weight in pounds at birth
BMI	Weight in kilogram divided by (height in meters) ²
Comments	Free text
Date of Birth	Date of birth of the patient
Gender	Gender of the patient
Gestational age	Gestational age of the baby calculated in weeks or months from the first day of the last period
Height	Height of the patient in meters
Height (US)	Height of the patient in inches
Medical Number	Medical registration number of the patient
Name	Name of the patient
Photo	Photo of the patient
Physician	Responsible physician
Referring physician	Physician who referred the patient
Scull circumference	Scull circumference in centimeters
Scull circumference (US)	Scull circumference in inches
Weight	Weight in kg
Weight (US)	Weight in pounds
PEDIATRIC:	<i>(In this list the Pediatric report elements will be recognizable by the sign P)</i>

<p>DEFINABLE* (PEDIATRIC):</p>									
<p><i>Definable Signals are report elements that are based on calculations on the raw signals with an output that depends on the choice from several definable parameters, concerning analysis range, combinations with sleep stages and combinations with body positions. Choices are:</i></p> <p>Analysis range <i>Lights off – Lights on Sleep onset – End of sleep All periods with CPAP pressure on All periods with CPAP pressure off In a period with a specific CPAP index, indicating a consecutive change in CPAP pressure</i></p> <p>Pediatric stages <i>All pediatric sleep stages (Wake, Indeterminate, Quiet, Active, Wake Movement Time, No Score+Unscored) During specified pediatric sleep stages</i></p> <p>Body Position <i>All body positions In specified body positions</i></p>									
<p>Signals (P)</p>									
<p>Advanced Pediatric Signal Time Table (P)</p>	<p>Table with the number of minutes and the percentage of time that a specific signal has a certain value. The range of signal values and the bin width that is used in the table are user defined.</p>								
<p>Signal Statistics (P)</p>	<p>The following statistics can be calculated for any defined digital signal:</p> <table border="0"> <tr> <td><i>mean</i></td> <td>- mean value of the signal over the specified time window</td> </tr> <tr> <td><i>max</i></td> <td>- maximum value of the signal over the specified time window</td> </tr> <tr> <td><i>min</i></td> <td>- minimum value of the signal over the specified time window</td> </tr> <tr> <td><i>standard deviation</i></td> <td>- variation of the signal over the specified time window</td> </tr> </table> <p>A valid signal range can be specified for which these values have to be calculated in the Valid Signal Range tab. This has to be enabled with a tick mark before Enable Range.</p>	<i>mean</i>	- mean value of the signal over the specified time window	<i>max</i>	- maximum value of the signal over the specified time window	<i>min</i>	- minimum value of the signal over the specified time window	<i>standard deviation</i>	- variation of the signal over the specified time window
<i>mean</i>	- mean value of the signal over the specified time window								
<i>max</i>	- maximum value of the signal over the specified time window								
<i>min</i>	- minimum value of the signal over the specified time window								
<i>standard deviation</i>	- variation of the signal over the specified time window								
<p>Definable events (Pediatric)</p> <p><i>Definable events are report elements about events with an output that depends on the choice from several definable parameters, concerning analysis range, combinations with sleep stages and combinations with body positions. Choices are:</i></p> <p>Analysis Range <i>Lights off – Lights on Sleep onset – End of sleep All periods with CPAP pressure on All periods with CPAP pressure off In a period with a specific CPAP index, indicating a consecutive change in CPAP pressure</i></p> <p>Pediatric Stages <i>All pediatric sleep stages (Wake, Indeterminate, Quiet, Active, Wake Movement Time, No Score+Unscored) During specified pediatric sleep stages</i></p> <p>Body Position <i>All body positions In specified body positions</i></p> <p><i>Each event can be displayed in several ways, like as an index or as the number of events. Possible choices are described with each event type below.</i></p> <p><i>An example of a definable event is:</i> Adding “Definable events/Respiration/Obstructive Apneas” to the selected report element list displays the following dialog</p>									

<p>Choosing the analysis range Lights off/ Lights on, display type Event count, found in all sleep stages and in all positions will give as result the number of obstructive apneas in stages Wake, Indeterminate, Quiet, Active, Wake Movement Time, No Score+Unscored, found irrespective of the body position.</p>	
<p>Arousal (P)</p>	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of arousals per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of arousals</p> <p><i>Standard deviation</i> - variation in number of arousals</p> <p><i>Mean duration</i> - mean duration of all arousal events</p> <p><i>Duration longest event</i> - duration of the longest arousal event</p>
<p>All Arousals (P)</p>	<p>All arousal events</p>
<p>Apnea Arousals (P)</p>	<p>Arousal events associated with apnea</p>
<p>Desaturation Arousals (P)</p>	<p>Arousal events associated with a desaturation</p>
<p>Hypopnea Arousals (P)</p>	<p>Arousal events associated with hypopnea</p>
<p>Limb Movement Arousals (P)</p>	<p>Arousal events associated with a limb movement</p>
<p>PLM Arousals (P)</p>	<p>Arousal events associated with a periodic limb movement</p>
<p>Resp LM Arousals (P)</p>	<p>Arousal events associated with apnea/hypopnea and limb movements</p>
<p>Snore Arousals (P)</p>	<p>Arousal events associated with snoring</p>
<p>Spontaneous Arousals (P)</p>	<p>Spontaneous arousals not associated with any other type of event</p>
<p>Desaturation (P)</p>	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of desaturation events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of desaturation events</p> <p><i>Standard deviation</i> - variation in number of events</p> <p><i>Mean duration</i> - mean duration of all events</p> <p><i>Duration longest event</i> - duration of the longest detected event</p> <p><i>Events below ...%</i> - number of desaturations below a SaO2 level of a specified percent</p> <p><i>Total duration below ...%</i> - number of seconds the desaturation events are below a specified percent</p> <p><i>Longest duration below ...%</i> - duration in number of seconds of the longest desaturations event</p> <p><i>Shortest duration</i> - duration of the shortest desaturation event in seconds</p> <p><i>Lowest SaO2 level</i> - the SaO2 level in percentage of the lowest desaturation event</p>
<p>Desaturations (P)</p>	<p>All desaturation events</p>
<p>SaO2 level (P)</p>	<p>The level of the SaO2 signal. It can be displayed as:</p> <p><i>Mean</i> - mean value of the heart rate</p> <p><i>Max</i> - maximum value of the heart rate</p> <p><i>Min</i> - minimum value of the heart rate</p> <p><i>Standard deviation</i> - standard deviation of the heart rate values</p>
<p>Heart Rate (P)</p>	<p>Brady/Tachycardia events can be displayed as:</p> <p><i>Index</i> - number of heart rate events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of heart rate events</p> <p><i>Standard deviation</i> - variation in number of heart rate events</p>

	<p><i>Mean duration</i> - mean duration of heart rate events <i>Duration longest event</i> - duration of the longest heart rate event</p> <p>Heart Rate Details can be displayed as: <i>Mean</i> - mean value of the heart rate <i>Max</i> - maximum value of the heart rate <i>Min</i> - minimum value of the heart rate <i>Standard deviation</i> - standard deviation of the heart rate values</p>
Bradycardias (P)	All bradycardia events
Heart Rate Details (P)	Mean, maximum, minimum value and standard deviation of the values of the heart rate
Tachycardias (P)	All tachycardia events
Limb Movement (P)	<p><i>Each event can be displayed as:</i></p> <p><i>Index</i> - number of limb movement events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of limb movement events <i>Standard deviation</i> - variation in number of limb movement events</p> <p><i>Mean duration</i> - mean duration of limb movement events <i>Duration longest event</i> - duration of the longest limb movement event</p>
LM Both (P)	Number of limb movements in both limbs
LM Left (P)	Number of limb movements in left limb
LM Right (P)	Number of limb movements in right limb
PLM Both (P)	Number of periodic limb movements in both limbs
PLM Left (P)	Number of periodic limb movements in left limb
PLM Right (P)	Number of periodic limb movements in right limb
PLM Sequence (P)	Number of periodic limb movement sequences
RRLM Both (P)	Number of respiratory related limb movements for both limbs
RRLM Left (P)	Number of respiratory related limb movements for left limb
RRLM Right (P)	Number of respiratory related limb movements for right limb
Gastroesophageal Reflux (GER, pH) (P)	<p><i>In version 7.1 there is no direct gastroesophageal report element. Definable events/User events has to be used instead. In the User Events dialog the event type (e.g. GER) and event sequence where the analysed events have been stored has to be defined.</i></p> <p><i>The classification reports separately for the alkalotic and acidotic events (de thresholds for these events are defined in the analysis). If 'All classifications' is used all reflux events are reported.</i></p>

	 <p>Each event can be displayed as:</p> <p><i>Index</i> - number of reflux events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of reflux events</p> <p><i>Standard deviation</i> - variation in number of reflux events</p> <p><i>Mean duration</i> - mean duration of reflux events</p> <p><i>Duration longest event</i> - duration of the longest reflux event</p>
<p>Respiration (P)</p>	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of respiration events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of respiration events</p> <p><i>Standard deviation</i> - variation in number of respiration events</p> <p><i>Mean duration</i> - mean duration of respiration events</p> <p><i>Duration longest event</i> - duration of the longest respiration event</p> <p>Phase and respiratory rate events can be displayed as:</p> <p><i>Mean</i> - mean value</p> <p><i>Max</i> - maximum value</p> <p><i>Min</i> - minimum value</p> <p><i>Standard deviation</i> - standard deviation of the values</p>
<p>All Apneas (P)</p>	<p>All apnea (obstructive, central and mixed) events</p>
<p>All Hypopneas (P)</p>	<p>All hypopnea (obstructive, central and mixed) events</p>
<p>Central Apneas (P)</p>	<p>Number of central apnea events</p>
<p>Central Hypopneas (P)</p>	<p>Number of central hypopnea events</p>
<p>Mixed Apneas (P)</p>	<p>Number of mixed apnea events</p>
<p>Mixed Hypopneas (P)</p>	<p>Number of mixed hypopnea events</p>
<p>Obstructive Apneas (P)</p>	<p>Number of obstructive apnea events</p>
<p>Obstructive Hypopneas (P)</p>	<p>Number of obstructive hypopnea events</p>
<p>Phase (P)</p>	<p>Mean value of the phase events</p>
<p>Respiratory Rate (P)</p> <p><i>Resp. rate is only calculated on the basis of the old apnea analysis. It assumes a peak-and-troughs event trace</i></p>	<p>Mean value of the respiratory rate</p> <p>NOTE: The respiratory rate is calculated by default from the analysis results of the flow signal. You can change this to the thorax or abdomen signal. This has to be done before the analysis of the respiratory signals. In the Respiratory dialog click NEW or EDIT in the Algorithm settings pane. At the bottom of the Algorithm Setting Respiratory Event Classification you can choose the input signal for the respiratory and sigh analysis.</p>

<p>Sighs (P)</p> <p><i>Only available in the old respiratory analysis</i></p>	<p>Number of sighs</p> <p>NOTE: The number of sighs is calculated by default from the analysis results of the flow signal. You can change this to the thorax or abdomen signal. This has to be done before the analysis of the respiratory signals. In the Respiratory dialog click NEW or EDIT in the Algorithm settings pane. At the bottom of the Algorithm Setting Respiratory Event Classification you can choose the input signal for the respiratory and sigh analysis.</p>
<p>Capnography</p>	<p><i>In version 7.1 there is no direct capnography element. Definable events/User events has to be used instead. In the User Events dialog the event type (Et CO2) and event sequence where the analysed events have been stored has to be defined.</i></p> <p><i>The classification reports the number of events with a specific value (in the case of EtCO2) or the number of hyper- or hypocapnia events).</i></p>  <p>Each event can be displayed as:</p> <p><i>Index</i> - number of respiration events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of respiration events</p> <p><i>Standard deviation</i> - variation in number of respiration events</p> <p><i>Mean duration</i> - mean duration of respiration events</p> <p><i>Duration longest event</i> - duration of the longest respiration event</p>
<p>Hypercapnia (P)</p>	<p>Number of hypercapnic events (available via Definable events/User events)</p>
<p>Obstructive hypoventilation (OHV) events (P)</p>	<p>Number of OHV events (available via Definable events/User events)</p>
<p>Peak obstructive hypoventilation (OHV) events (P)</p>	<p>Number of peak OHV events (available via Definable events/User events)</p>
<p>EtCO2 signal statistics (P)</p>	<p>Mean, max, min and stand. deviation of the EtCO2 signal via Definable/Signals/Signal statistics</p>
<p>Snoring (P)</p>	<p>Each event can be displayed as:</p> <p><i>Index</i> - number of snoring events per hour asleep, calculated as the number of events divided by the Total Sleep Time and multiplied by 60</p> <p><i>Event count</i> - number of snoring events</p> <p><i>Standard deviation</i> - variation in number of respiration events</p> <p><i>Mean duration</i> - mean duration of respiration events</p> <p><i>Duration longest event</i> - duration of the longest respiration</p>

	<i>event</i>
Snore Events (P)	Number of snore events
HYPNOGRAMS (PEDIATRIC):	
Infant Stage Hypnogram (P)	Various display modes of the hypnogram are possible: <i>Wake, Indeterminate, Active, Quiet, MT, No score</i> <i>Wake, Active, Indeterminate, Quiet,, MT, No score</i> <i>Active, Wake, Indeterminate, Quiet,, MT, No score</i>
SLEEP PARAMETERS (PEDIATRIC):	
Infant sleep efficiency (P)	$(\text{Total infant sleep time} / \text{Total time in Bed}) * 100$
Infant sleep fragmentation (P)	$\text{Sleep Period Time} / \text{Infant Number of Intermittent awakenings}$
Infant total sleep time (P)	Accumulated number of minutes in stages Indeterminate, Active, Quiet and MT from Lights Off to Lights On
STAGE DURATIONS (PEDIATRIC):	
Duration infant stage No Score (P)	Number of minutes in infant stage No Score between Lights Off and Lights On
Duration infant stage Wake (P)	Number of minutes in infant stage Wake between Lights Off and Lights On
Duration stage Active Sleep (P)	Number of minutes in Active Sleep between Lights Off and Lights On
Duration stage Indeterminate Sleep (P)	Number of minutes in Indeterminate Sleep between Lights Off and Lights On
Duration stage Quiet Sleep (P)	Number of minutes in Quiet Sleep between Lights Off and Lights On
Infant duration movement time (P)	Number of minutes in infant stage movement time between Lights Off and Lights On
STAGE DURATIONS/SPT (PEDIATRIC):	
MT/SPT (P)	Number of minutes in infant Movement Time between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage A/SPT (P)	Number of minutes in Active Sleep between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage I/SPT (P)	Number of minutes in Indeterminate Sleep between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
Stage Q/SPT (P)	Number of minutes in Quiet Sleep between Sleep Onset and End of Sleep divided by the Sleep Period Time multiplied by 100
STAGE DURATIONS/TIB (PEDIATRIC):	

MT/TIB (P)	Number of minutes in infant Movement Time between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage A/TIB (P)	Number of minutes in Active Sleep between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage I/TIB (P)	Number of minutes in Indeterminate Sleep between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage Q/TIB (P)	Number of minutes in Quiet Sleep between Lights Off and Lights On divided by the Time in Bed multiplied by 100
Stage Wake/TIB (P)	Number of minutes in Wake between Lights Off and Lights On divided by the Time in Bed multiplied by 100
STAGE DURATIONS/TST (PEDIATRIC):	
MT/TST (P)	Number of minutes in infant Movement Time between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Stage A/TST (P)	Number of minutes in Active Sleep between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Stage I/TST (P)	Number of minutes in Indeterminate Sleep between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
Stage Q/TST (P)	Number of minutes in Quiet Sleep between Lights Off and Lights On divided by the Total Sleep Time multiplied by 100
WAKE PARAMETERS (PEDIATRIC):	
Infant AWI (awakening index) (P)	Number of infant awakenings per hour asleep (defined as the number of awakenings in the Sleep Period Time divided by the SPT and multiplied by 60)
Infant number of awakenings (NW) (P)	Number of infant awakenings between Lights Off and Lights On
Infant number of intermittent awakenings (NIW) (P)	Number of infant awakenings during the Sleep Period Time
Infant wake after sleep (P)	Total number of minutes in stage infant Wake between End of Sleep and Lights On.
Infant wake after sleep onset (P)	Total number of minutes in stage infant Wake between Sleep Onset and Lights On.
Infant wake before sleep (P)	Total number of minutes in stage infant Wake between Lights Off and Sleep Onset.
Infant wake during sleep (P)	Total number of minutes in stage infant Wake, MT and No score between Sleep Onset and End of Sleep.
Periodic breathing:	
# Periodic breathing episodes	Number of periods with periodic breathing (alternating pattern of regular breathing and central apneas) between Lights Off and Lights On
% of TST with Periodic breathing	Total number of minutes in periodic breathing (alternating pattern of regular breathing and central apneas) divided by the total sleep time, multiplied by 100
Pediatric	
% of TST with Periodic breathing (P)	Total number of minutes in periodic breathing (alternating pattern of regular breathing and central apneas) divided by the infant total sleep time, multiplied by 100

Periodic breathing Total Time	Total number of minutes in periodic breathing (alternating pattern of regular breathing and central apneas) between Lights Off and Lights On
PTT	<p><i>PTT arousals can be reported with an output that depends on the choice from several definable parameters, concerning analysis range, combinations with sleep stages and combinations with body positions. Choices are:</i></p> <p>Analysis range</p> <ul style="list-style-type: none"> <i>Lights off – Lights on</i> <i>Sleep onset – End of sleep</i> <i>All periods with CPAP pressure on</i> <i>All periods with CPAP pressure off</i> <i>In a period with a specific CPAP index, indicating a consecutive change in CPAP pressure</i> <p>Sleep stages</p> <ul style="list-style-type: none"> <i>All sleep stages (Wake, S1, S2, S3, S4, REM, MT, No score + unscored)</i> <i>During specified sleep stages</i> <p>Body Position</p> <ul style="list-style-type: none"> <i>All body positions</i> <i>In specified body positions</i>
Pediatric	<p><i>Pediatric PTT arousals can be reported with an output that depends on the choice from several definable parameters, concerning analysis range, combinations with sleep stages and combinations with body positions. Choices are:</i></p> <p>Analysis range</p> <ul style="list-style-type: none"> <i>Lights off – Lights on</i> <i>Sleep onset – End of sleep</i> <i>All periods with CPAP pressure on</i> <i>All periods with CPAP pressure off</i> <i>In a period with a specific CPAP index, indicating a consecutive change in CPAP pressure</i> <p>Pediatric stages</p> <ul style="list-style-type: none"> <i>All pediatric sleep stages (Wake, Indeterminate, Quiet, Active, Wake Movement Time, No Score+Unscored)</i> <i>During specified pediatric sleep stages</i> <p>Body Position</p> <ul style="list-style-type: none"> <i>All body positions</i> <i>In specified body position</i>
PTT drops (P)	Number of pediatric PTT arousals
PTT drops	Number of PTT arousals
Recording information:	
End of Recording	End of the recording in hh:mm:ss
Recording Code	Code of the recording, generally generated automatically by Data Lab
Recording Date	Date of the recording
Start of Recording	Start of the recording in hh:mm:ss
Technician	Name of the technician
Total Recording Time (hh:mm:ss)	Duration of the recording in hh:mm:ss
Total Recording Time (min.)	Duration of the recording in minutes
User fields	Up to 10 User fields can be defined in the properties page of Analysis Manager containing labels (Name) like: medication, SSS score etc. For each recording the User fields can be filled with values (Value) like melatonin or the actual score on the SSS scale

	for the patient on this recording.
Name 1	User defined label
Name 10	User defined label
Name 2	User defined label
Name 3	User defined label
Name 5	User defined label
Name 6	User defined label
Name 7	User defined label
Name 8	User defined label
Name 9	User defined label
Value 1	User defined value of label 1, valid for the current recording
Value 10	User defined value of label 10, valid for the current recording
Value 2	User defined value of label 2, valid for the current recording
Value 3	User defined value of label 3, valid for the current recording
Value 4	User defined value of label 4, valid for the current recording
Value 5	User defined value of label 5, valid for the current recording
Value 6	User defined value of label 6, valid for the current recording
Value 7	User defined value of label 7, valid for the current recording
Value 8	User defined value of label 8, valid for the current recording
Value 9	User defined value of label 9, valid for the current recording
RETIRED	Retired report elements are old report elements that are replaced with new ones. These elements should not be included in a new report.
SCRIPTING	Scripting elements are used for programming of special variables
SPLIT NIGHT	Split Nights report elements are report elements that are calculated for the period without CPAP and for each period with a specific change in CPAP pressure. The consecutive changes in pressure are numbered in a chronological order (called an Index).
CPAP Information	
CPAP level	The CPAP pressure level in cm H2O during a period with a specific pressure change. The period is indicated with the chronological Index number.
Duration of CPAP Index	Duration in minutes of the period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
End of CPAP Index	End time in hh:mm:ss of the period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Start of CPAP Index	Start time in hh:mm:ss of the period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Sleep Parameters	

Latencies	
Persistent Sleep Onset Latency	Latency in minutes from Lights Off till the first epoch from a series of at least 2 minutes of Stage 1, 2, 3, 4 or REM
REM Latency from Persistent Sleep	Latency in minutes from the first epoch from a series of at least 2 minutes of Stage 1, 2, 3, 4 till the first epoch REM
St 1 Latency from Start CPAP Index	Latency in minutes from the epoch in which the change in CPAP level of the particular period with CPAP Index n took place to the first epoch Stage 1
St 2 Latency from Start CPAP Index	Latency in minutes from the epoch in which the change in CPAP level of the particular period with CPAP Index n took place to the first epoch Stage 2
St 3 Latency from Start CPAP Index	Latency in minutes from the epoch in which the change in CPAP level of the particular period with CPAP Index n took place to the first epoch Stage 3
St 4 Latency from Start CPAP Index	Latency in minutes from the epoch in which the change in CPAP level of the particular period with CPAP Index n took place to the first epoch Stage 4
Sleep Efficiency per CPAP Index	(Total sleep time / Total time in Bed in the period with CPAP Index n)*100. Time in Bed is here calculated from the epoch in which the change in CPAP level of the particular period with CPAP Index n took place, till the first epoch of the next period with a change in CPAP level
Sleep Fragmentation Time per CPAP level	Total sleep time / Number of Intermittent awakenings, calculated from the epoch in which the change in CPAP level of the particular period with CPAP Index n took place, till the first epoch of the next period with a change in CPAP level
Stage Durations	
MT per CPAP Index	Number of minutes MT in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
No Score per CPAP Index	Number of minutes No Score in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
REM per CPAP Index	Number of minutes REM in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Stage 1 per CPAP Index	Number of minutes Stage 1 in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Stage 2 per CPAP Index	Number of minutes Stage 2 in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Stage 3 per CPAP Index	Number of minutes Stage 3 in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Stage 4 per CPAP Index	Number of minutes Stage 4 in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Wake per CPAP Index	Number of minutes Wake in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Total Sleep Time per CPAP Index	Accumulated number of minutes in stages 1, 2, 3, 4, REM and MT in a period with a specific CPAP pressure change. The period is indicated with the chronological

	Index number.
Wake Parameters	
Awakening Index per CPAP Index	Number of awakenings per hour asleep in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number.
Number of Awakenings per CPAP Index	Number of awakenings in a period with a specific CPAP pressure change. The period is indicated with the chronological Index number
Wake after Sleep per CPAP Index	Total number of minutes in stage Wake from the last epoch in Stage 1, 2, 3, 4, REM or MT in a period with a specific CPAP pressure change till the end of that period. The period is indicated with the chronological Index number
Wake before Sleep per CPAP Index	Total number of minutes in stage Wake between the start of a period with a specific CPAP pressure change till the first epoch of sleep (Stage 1, 2, 3, 4, REM and MT) in that period. The period is indicated with the chronological Index number
Wake during Index per CPAP Index	Number of minutes awake, accumulated during the period from Sleep Onset in a period with a specific CPAP pressure change till the last epoch of sleep (Stage 1, 2, 3, 4, REM and MT) in that period. The period is indicated with the chronological Index number

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