

Patient Alarms and INOPs

This chapter lists patient alarms alphabetically, and technical alarms (INOPs) arranged by the source of the INOP and then alphabetically, irrespective of their priority. All alarms and INOPs are listed here; the ones which can appear on your monitor will depend on the model and the individual options.

Patient Alarm Messages

The measurement labels and abbreviations for pressure, temperature, SpO₂, and anesthetic agent alarms are explained in the individual chapters.

Some alarms may be shown at the Information Center in shortened form, when transferred through IntelliVue Instrument Telemetry. These shortened alarm texts are included in the list and identified with the note "at Information Center".

Refer to your IntelliBridge Device Driver Instructions for Use for patient alarms from connected external devices.

Refer to your Gas Module Instructions for Use for patient alarms and INOPs from the gas modules.

Refer to your IntelliVue TcG10 Instructions for Use for patient alarms and INOPs from the TcG10.

Alarm Message	From	Condition	Indication
* AFIB	ECG/Arrhythmia	Atrial fibrillation waveform detected	yellow alarm lamp, short yellow alarm tone
*** Apnea *** Apnea x:yy *** Apnea >10 min	CO ₂ , Resp, Spirometry	Respiration has stopped for longer than the preset apnea time. "x:yy" denotes the Apnea duration in minutes and seconds	numeric flashes, red alarm lamp, alarm tone
*** Asystole	ECG	No QRS detected for a period > the asystole alarm threshold	numeric flashes, red alarm lamp, alarm tone
** awRR High	CO ₂ , Resp, AGM	The airway respiration rate has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** awRR Low	CO ₂ , Resp, AGM	The airway respiration rate has dropped below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
** BIS High	BIS	The Bispectral Index value has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** BIS Low	BIS	The Bispectral Index value has dropped below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone

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Alarm Message	From	Condition	Indication
***Brady/P xxx<yyy ***Brady xxx < yyy	Press, SpO ₂ ECG	This is the alternative alarm message for *** Extreme Brady , when the alarm text setting is Enhanced . Heart rate < the extreme bradycardia alarm limit. xxx denotes the lowest measured value; yyy is the extreme bradycardia limit.	numeric flashes and alarm limit is highlighted, red alarm lamp, alarm tone
** CCO High ** CCI High	CCO	Continuous Cardiac Output or CC Index is above the high alarm limit.	numeric flashes and high alarm limit is highlighted, yellow alarm lamp, alarm tone
** CCO Low ** CCI Low	CCO	Continuous Cardiac Output or CC Index is below the low alarm limit.	numeric flashes and low alarm limit is highlighted, yellow alarm lamp, alarm tone
** CPP High	CPP	The CPP value has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** CPP Low	CPP	The CPP value has fallen below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
*** Desat *** Desat xx < yy	SpO ₂	The SpO ₂ value has fallen below the desaturation alarm limit. xx denotes the lowest measured value, and yy is the desaturation limit.	numeric flashes, red alarm lamp, alarm tone
** EC10 Alarm *** EC10 Alarm at Information Center	EC10 IntelliBridge	A yellow (**) or red (***) patient alarm is present on the IntelliBridge module. Check the monitor display for more detailed alarm information.	(on monitor) yellow or red alarm lamp; the alarm text is defined by the IntelliBridge device driver
* End AFIB	ECG/Arrhythmia	Atrial fibrillation no longer detected for the configured Afib end delay time	yellow alarm lamp, short yellow alarm tone
* End Irregular HR	ECG/Arrhythmia	Irregular HR no longer detected for the configured irregular HR end delay time.	yellow alarm lamp, short yellow alarm tone
** etCO₂ High	CO ₂ , AGM	The end tidal CO ₂ high alarm limit has been exceeded.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** etCO₂ Low	CO ₂ , AGM	The end tidal CO ₂ value has fallen below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
** etO₂ High	O ₂ , AGM	The end tidal O ₂ high alarm limit has been exceeded.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** etO₂ Low	O ₂ , AGM	The end tidal O ₂ value has fallen below the low alarm limit.	numeric flashes, and low limit is highlighted, yellow alarm lamp, alarm tone
* Event ** Event *** Event at Information center	Event surveillance	An event has occurred and the event notification is configured to alarm. Check on the monitor for more details on event group.	(on monitor) event group name flashes, yellow or red alarm lamp and alarm tone
* Event:<Event Group> ** Event:<Event Group> *** Event:<Event Group>	Event surveillance	An event has occurred and the event notification is configured to alarm.	event group name flashes, yellow or red alarm lamp and alarm tone

Alarm Message	From	Condition	Indication
*** Extreme Brady	ECG	Heart rate < the extreme brady alarm limit.	numeric flashes and alarm limit is highlighted, red alarm lamp, alarm tone
*** Extreme Tachy	ECG	Heart rate > the extreme tachy alarm limit.	numeric flashes and alarm limit is highlighted, red alarm lamp, alarm tone
* HR High ** HR High	ECG	Heart rate > the high HR alarm limit	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone. If configured to short yellow, the sound switches off after 5 seconds if Arrhythmia is switched on.
* HR Low ** HR Low	ECG	Heart rate < the low HR alarm limit	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone. If configured to short yellow, the sound switches off after 5 seconds if Arrhythmia is switched on.
** IPI Low	CO ₂	The IPI value has fallen below the low alarm limit.	numeric flashes, and low limit is highlighted, yellow alarm lamp, alarm tone
* Irregular HR	ECG/Arrhythmia	Consistently irregular rhythm (irregular R-R intervals).	numeric flashes, yellow alarm lamp, short yellow audible alarm
** <iTemp Label> High	iTemp	The temperature value has exceeded the high alarm limit.	numeric flashes and high limit is high-lighted, yellow alarm lamp, alarm tone
** <iTemp Label> Low	iTemp	The temperature value has dropped below the low alarm limit.	numeric flashes and low limit is high-lighted, yellow alarm lamp, alarm tone
* Missed Beat	ECG/Arrhythmia	No beat detected for > 1.75*(the averaged R-R interval), or no beat detected for > one second if HR > 120 (For non-paced patients only).	numeric flashes, yellow alarm lamp, short yellow audible alarm
* More Alarms ** More Alarms *** More Alarms	other assigned devices	There is more than one physiological alarm of the corresponding severity active on the devices that monitor this patient. For details, check the information displayed at the Information Center.	yellow or red alarm lamp and alarm tone
* Multiform PVCs	ECG/Arrhythmia	Two different shaped Vs detected, each occurring at least twice within the last 300 beats and at least once within the last 60 beats.	numeric flashes, yellow alarm lamp, short yellow audible alarm
** NBP High	NBP	The measured NBP value is above the high alarm limit. s, d, or m after the label indicates whether the systolic, diastolic or mean pressure has crossed the limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** NBP Low	NBP	The measured NBP value is below the low alarm limit. s, d, or m after the label indicates whether the systolic, diastolic or mean pressure has crossed the limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
* Non-Sustain VT	ECG/Arrhythmia	A run of PVCs < the V-Tach run limit and ventricular heart rate > the V-Tach HR limit	numeric flashes, yellow alarm lamp, short yellow audible alarm

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Alarm Message	From	Condition	Indication
* OtherMon Alarm ** OtherMon Alarm *** OtherMon Alarm	another assigned monitor	Another monitor used for the patient is in an alarm condition. Check the detailed alarm information at the Information Center.	yellow or red alarm lamp and alarm tone
* Pacer Not Capt	ECG/Arrhythmia (paced patients only)	No beat detected for > 1.75*(the averaged R-R interval) with detected pace pulse(s). (For paced patients only).	numeric flashes, yellow alarm lamp, short yellow audible alarm
* Pacer Not Pacing	ECG/Arrhythmia (paced patients only)	No beat and pace pulse detected for > 1.75*(the averaged R-R interval). (For paced patients only).	numeric flashes, yellow alarm lamp, short yellow audible alarm
* Pair PVCs	ECG/Arrhythmia	Two ventricular beats between two non-ventricular beats.	numeric flashes, yellow alarm lamp, short yellow audible alarm
* Pause	ECG/Arrhythmia	No beat detected for a period > the pause threshold.	numeric flashes, yellow alarm lamp, short yellow audible alarm
*** <Press Label> Disconnect	PRESS	The pressure is non-pulsatile and the mean pressure is continuously less than 10 mmHg (1.3 kPa). This alarm occurs only with arterial pressures (P, ABP, ART, Ao, BAP, FAP, PAP, UAP, P1, P2, P3, P4).	numeric flashes, red alarm lamp, alarm tone
*** <Press Label> High	PRESS	The measured pressure value is above the extreme high alarm limit. s, d, or m after the label indicates whether the systolic, diastolic or mean pressure has crossed the limit.	numeric flashes, high limit is highlighted, red alarm lamp, alarm tone
** <Press Label> High	PRESS	The measured pressure value is above the high alarm limit. s, d, or m after the label indicates whether the systolic, diastolic or mean pressure has crossed the limit.	numeric flashes, high limit is highlighted, yellow alarm lamp, alarm tone
*** <Press Label> Low	PRESS	The measured pressure value is below the extreme low alarm limit. s, d, or m after the label indicates whether the systolic, diastolic or mean pressure has crossed the limit.	numeric flashes and low limit is highlighted, red alarm lamp, alarm tone
** <Press Label> Low	PRESS	The measured pressure value is below the low alarm limit. s, d, or m after the label indicates whether the systolic, diastolic or mean pressure has crossed the limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
** Pulse High	PRESS, SpO ₂	The pulse rate has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** Pulse Low	PRESS, SpO ₂	The pulse rate has dropped below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
* PVCs/min High	ECG/Arrhythmia	PVCs detected within a minute > the alarm limit	numeric flashes, yellow alarm lamp, short yellow audible alarm
** QTc High	ECG/QT	QTc value has exceeded the QTc high limit for more than 5 minutes	numeric flashes, yellow alarm lamp, alarm tone
** ΔQTc High	ECG/QT	ΔQTc value has exceeded the ΔQTc high limit for more than 5 minutes	numeric flashes, yellow alarm lamp, alarm tone

Alarm Message	From	Condition	Indication
* R-on-T PVCs	ECG/Arrhythmia	For HR < 100, a PVC with R-R interval < 1/3 the average interval followed by a compensatory pause of 1.25*(the average R-R interval), or two such Vs without compensatory pause occurring within 5 minutes of each other. (When HR > 100, 1/3 R-R interval is too short for beat detection)	numeric flashes, yellow alarm lamp, short yellow audible alarm
** RR High	RESP	The respiration rate has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** RR Low	RESP	The respiration rate has dropped below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
* Run PVCs High	ECG/Arrhythmia	A run of > 2 PVCs.	numeric flashes, yellow alarm lamp, short yellow audible alarm
** <SO₂ Label> High	SvO ₂ /SO ₂	The the measured intravascular oxygen saturation has exceeded the high limit.	numeric flashes and high alarm limit is highlighted, yellow alarm lamp, alarm tone
** <SO₂ Label> Low	SvO ₂ /SO ₂	The measured intravascular oxygen saturation has fallen below the low limit.	numeric flashes and low alarm limit is highlighted, yellow alarm lamp, alarm tone
** <SpO₂ Label> High	SpO ₂	The arterial oxygen saturation has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** <SpO₂ Label> Low	SpO ₂	The arterial oxygen saturation has fallen below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
**ST Multi <n>, <n>	ECG/ST	Two contiguous ST leads <n> and <n> have exceeded elevation or depression limits for more than 60 seconds. The limit violations for both leads must be with respect to same limit; either both above the high limit or both below the low limit.	numeric flashes, yellow alarm lamp, alarm tone
**ST Multi at Information Center	ECG/ST	The ST depression or elevation is outside of the limit in two or more leads. Check on the monitor	(on monitor) numeric flashes, yellow alarm lamp, alarm tone
**STE <n>, <n>	ECG/ST	Two contiguous leads <n> and <n> are above their respective STE limits	numeric flashes, yellow alarm lamp, alarm tone
** ST-<n> High	ECG/ST	The ST elevation in lead <n> is higher than the limit. Lead is not contiguous with any other lead.	numeric flashes and high alarm limit is highlighted, yellow alarm lamp, alarm tone
** ST-<n> Low	ECG/ST	The ST depression in lead <n> is lower than the limit. Lead is not contiguous with any other lead.	numeric flashes and low alarm limit is highlighted, yellow alarm lamp, alarm tone
* SVT	ECG/Arrhythmia	A run of supraventricular beats > the SVT run limit and heart rate > the SVT HR limit.	numeric flashes, yellow alarm lamp, alarm tone

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Alarm Message	From	Condition	Indication
***Tachy/P xxx>yyy or ***Tachy xxx > yyy	Press, SpO ₂ , ECG	This is the alternative alarm message for *** Extreme Tachy when the alarm text setting is Enhanced . Heart rate >the extreme tachycardia alarm limit. xxx denotes the highest measured value; yyy is the tachycardia limit.	numeric flashes, alarm limit is highlighted, red alarm lamp, alarm tone
** Tblood High	C.O.	The blood temperature value has exceeded the high alarm limit.	numeric flashes, high alarm limit is highlighted, yellow alarm lamp, alarm tone
** Tblood Low	C.O.	The blood temperature value has fallen below the low alarm limit.	numeric flashes, low alarm limit is highlighted, yellow alarm lamp, alarm tone
** tcpO₂ High ** tcpCO₂ High	tcGas	The tcpO ₂ or tcpCO ₂ value has exceeded the high alarm limit.	numeric flashes, high alarm limit is highlighted, yellow alarm lamp, alarm tone
** tcpO₂ Low ** tcpCO₂ Low	tcGas	The tcpO ₂ or tcpCO ₂ value has fallen below the low alarm limit.	numeric flashes, low alarm limit is highlighted, yellow alarm lamp, alarm tone
* Tele Alarm ** Tele Alarm *** Tele Alarm	an assigned telemetry device	A telemetry device used for the patient is in an alarm condition. Check the detailed alarm information at the Information Center.	yellow or red alarm lamp and alarm tone
** <Temp Label> High	TEMP	The temperature has exceeded the high alarm limit.	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
** <Temp Label> Low	TEMP	The temperature has fallen below the low alarm limit.	numeric flashes and low limit is highlighted, yellow alarm lamp, alarm tone
* T-Mon Alarm ** T-Mon Alarm *** T-Mon Alarm	an assigned transport monitor	A transport monitor used for the patient is in an alarm condition. Check the detailed alarm information at the Information Center.	yellow or red alarm lamp and alarm tone
** TOFcnt High	NMT	TOFcnt value has exceeded the high alarm limit	numeric flashes and high limit is highlighted, yellow alarm lamp, alarm tone
* Vent Bigeminy	ECG/Arrhythmia	A dominant rhythm of N, V, N, V (N = supraventricular beat, V=ventricular beat)	numeric flashes, yellow alarm lamp, short yellow audible alarm
*** Vent Fib/Tach	ECG	Fibrillatory waveform (sinusoidal wave between 2 – 10 Hz) for 4 consecutive seconds.	numeric flashes, red alarm lamp, alarm tone
* Vent Rhythm ** Vent Rhythm	ECG/Arrhythmia	A dominant rhythm of adjacent Vs > the vent rhythm limit and ventricular heart rate < the V-Tach HR limit.	numeric flashes, yellow alarm lamp, short yellow audible alarm
* Vent Trigeminy	ECG/Arrhythmia	A dominant rhythm of N, N, V, N, N, V (N = supraventricular beat, V = ventricular beat).	numeric flashes, yellow alarm lamp, short yellow audible alarm
*** VTach	ECG, Arrhythmia	A run of PVCs ≥ the V-Tach run limit and heart rate > the V-Tach HR limit.	numeric flashes, red alarm lamp, alarm tone
** VueLink Alarm *** VueLink Alarm at Information Center	VueLink	A yellow (**) or red (***) patient alarm is present on the VueLink module. Check the monitor display for more detailed alarm information.	(on monitor) yellow or red alarm lamp; the alarm text is defined by the VueLink device driver