

Blood Gas System

GASTAT-1800 series



TMC Techno Medica

Always innovation start from GASTAT



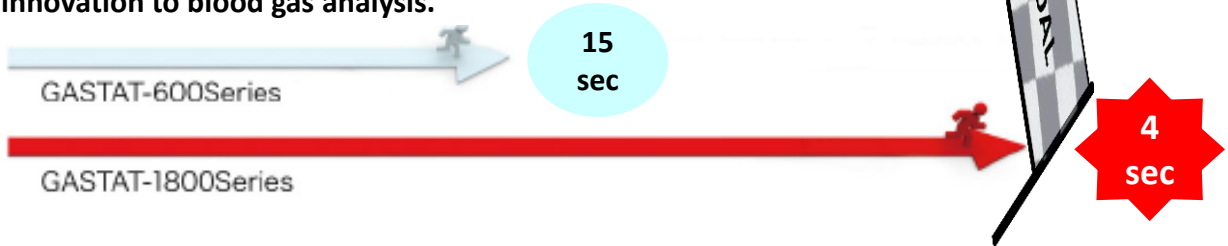
12 model line up

	1810	1820	1830	1815	1825	1835	1810 aqc	1820 aqc	1830 aqc	1815 aqc	1825 aqc	1835 aqc
pH, pCO ₂ pO ₂ , ctHb	●	●	●	●	●	●	●	●	●	●	●	●
cNa ⁺ , cK ⁺ cCl ⁻ , cCa ²⁺	-	●	●	-	●	●	-	●	●	-	●	●
cGlucose cLactate	-	-	●	-	-	●	-	-	●	-	-	●
CO- Oximetry	-	-	-	●	●	●	-	-	-	●	●	●
AutoQC	-	-	-	-	-	-	●	●	●	●	●	●

1. High Speed Sample Aspiration

Sampling time becomes approx. 4sec! (Depending on model) Time of that of GASTAT-600 series is approx. 15sec.

This new technology realizes to shorten Turn Around Time bringing innovation to blood gas analysis.



2. Injection Safety

GASTAT-1800 series adopts automatic aspiration. Even if operator inject a sample in mistake, it detects his wrong operation, and then absorbs the pressure to prevent him from sample flush back.



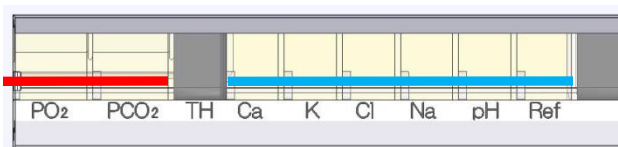
3. Smart AQC

Newly developed CAL Cartridge contains QC liquid. QC liquid is designed to flow the same path of blood sample as it guarantees the quality as using conventional glass ampoule QC. QC is automated and programmable.



4. Micro Mode

Do not worry even if the sample volume is too small to measure all of the test. Micro Mode controls the sample to shift the sample between electrode zone 1 and 2 to cover all the test.



Zone 1

Zone 2

5. Broad Data Entry

As a sample information, Patient name, Sex, Birthday, Height, Weight, etc can be entered before or during sample measurement.

6. Cancellation of calibration

Cancellation of calibration when you have to measure stat sample.

*Cancellation of calibration after cleaning sequence.

7. Built-in Barcode Reader

No need to hold the barcode reader to read the sample container or consumables. Reading become speedy and easy more than ever.



8. Zero-maintenance Electrode

Long lasting electrodes are compatible between GASTAT-1800 and 600 series. Now you can get stable high-precision performance with absolutely maintenance free.



9. Power failure protection

Its built-in battery eliminates problems brought on by power failure or other such emergencies.

11. One Eyes Shot Status

Main screen shows all of the status in a most simple way. Even you are busy, just a single seconds to learn the machine status.



10. Touch-sensitive 12inch Color LCD

Its color touch panel conveniently displays movie easy-to-follow guidance for every operation and the exchange of consumables. Its self-contained help function helps less experienced personnel in all operations. You'll be delighted at how smoothly it runs.



Specification

Specimen	Whole blood, Serum, Plasma, Dialysate							
Test available (measured)	Item	Measurement range	1810	1820	1830	1815	1825	1835
			1810aqc	1820aqc	1830aqc	1815aqc	1825aqc	1835aqc
Test available (measured)	pH	6.000 - 8.000	○	○	○	○	○	○
	pCO ₂	10.0 - 200.0Torr	○	○	○	○	○	○
	pO ₂	10.0 - 760.0Torr	○	○	○	○	○	○
	cNa ⁺	80.0 - 200.0mmol/L		○	○		○	○
	cK ⁺	1.00 - 20.00mmol/L		○	○		○	○
	cCl ⁻	50.0 - 200.0mmol/L		○	○		○	○
	cCa ²⁺	0.5 - 5.0mmol/L		○	○		○	○
	cGlucose	20.0 - 1200.0mg/dL			○			○
	cLactate	0.4 - 30.0mmol/L			○			○
	cHb	2.0 - 23.0g/dL	○	○	○			
	ctHb	2.0 - 23.0g/dL				○	○	○
	sO ₂	0.0 - 100.0%				○	○	○
	FO ₂ Hb	0.0 - 100.0%				○	○	○
	FCO ₂ Hb	0.0 - 100.0%				○	○	○
	FMetHb	0.0 - 100.0%				○	○	○
	FHHb	0.0 - 100.0%				○	○	○
	Test available (calculated)	cHCO ₃ act		○	○	○	○	○
cHCO ₃ std			○	○	○	○	○	○
cBE(ecf)			○	○	○	○	○	○
cBE(B)			○	○	○	○	○	○
cBB			○	○	○	○	○	○
ctCO ₂ (P)			○	○	○	○	○	○
ctCO ₂ (B)			○	○	○	○	○	○
sO ₂ (est)			○	○	○			
BO ₂			○	○	○	○	○	○
p50			○	○	○	○	○	○
p50(T)			○	○	○	○	○	○
p50(st)			○	○	○	○	○	○
pO ₂ /FiO ₂			○	○	○	○	○	○
pO ₂ (A,T)			○	○	○	○	○	○
pO ₂ (A)			○	○	○	○	○	○
pO ₂ (A-a)			○	○	○	○	○	○
pO ₂ (A-a,T)			○	○	○	○	○	○
pO ₂ (a/A)			○	○	○	○	○	○
pO ₂ (a/A,T)			○	○	○	○	○	○
RI			○	○	○	○	○	○
RI(T)			○	○	○	○	○	○
ctO ₂ (a)			○	○	○	○	○	○
ctO ₂ (B)			○	○	○	○	○	○
ctO ₂ (v)			○	○	○	○	○	○
ctO ₂ (a-v)			○	○	○	○	○	○
ctO ₂ [(a-v)/a]			○	○	○	○	○	○
Hct			○	○	○	○	○	○
AG				○	○		○	○
AG(K)				○	○		○	○
cCa ²⁺ (7.4)				○	○		○	○
Sample volume	Model		Syringe			Capillary		
	GASTAT-1810/1810aqc		120μL			60μL		
	GASTAT-1820/1820aqc		120μL			80μL		
	GASTAT-1830/1830aqc		160μL			100μL		
	GASTAT-1815/1815aqc		155μL			60μL		
	GASTAT-1825/1825aqc		155μL			80μL		
	GASTAT-1835/1835aqc		195μL			100μL		
	Micro mode (All model)		30μL (Gas, pH/Electrolyte parameter)			NOTE: Metabolic and OXY parameter cannot be measured by Micro mode		
Analysis time (from press measurement button to result appears on the display)	GASTAT-1810/1820(aqc)		About 50 seconds					
	GASTAT-1830(aqc)		About 55 seconds					
	GASTAT-1815/1825/1835(aqc)		About 75 seconds					
Cycle time (measurement sample + flush cleaning)	GASTAT-1810/1820(aqc)		About 105 seconds					
	GASTAT-1830(aqc)		About 170 seconds					
	GASTAT-1815/1825		About 155 seconds					
	GASTAT-1835(aqc)		About 190 seconds					
Sample aspiration time	GASTAT-1810/1820(aqc)		Within 4 seconds					
	GASTAT-1830/1815/1825/1835(aqc)		Within 5 seconds					
Display	12inch full color display/touch panel							
Entered parameter	Patient ID, Patient temperature, Patient Hb, Barometric pressure, FiO ₂ , Height, Weight, Sex, Age							
Calibration	Automatic, programmable 1 and 2 point calibration							
Reagent, Waste volume detection	Automatic intergrade detection method							
Data storage	10,000 samples							
Printer	Line thermal							
Interface	TCP/IP							
Barcode reader	Built-in (12 kinds of barcode are available)							
Operating temperature	10 - 30° C							
Humidity	5 - 80%							
Power	AC85 - 264V 50/60Hz 150W, Built-in Battery							
Dimensions (mm)	330(W)X420(D)X570(H)							
Weight	18.5Kg							