CG200 Trouble shooting:

If the reference is not working, either failed or not connected properly then all the readings will be off.
Or if there is no solution entering the flow cell from a blocked tube

The mV readings should all look different:

Condition													Waiting, 29m 45s						^
Ca2+	123.12 mV	K+	117.91 mV	Mg2+	54.70 mV	(N) NH4+	57.98 mV	(N) NO3-	182.72 mV	(P) HPO42-	257.74 mV	Cl-	179.69 mV	Na+	6.82 mV				

The slopes should look like this (second row):

🏠 CleanGrowAuto																	⇅ ppm

Idle							Idle									^
Ca2+	-8.64 mV	K+	-4.66 mV	Mg2+	20.71 mV	(N) NH4+	-28.28 mV	(N) NO3-	27.03 mV	(P) HPO42-	-12.98 mV	Cl-	8.92 mV	Na+	27.18 mV

Stop				Drain	Clean	Condition	Calibrate	Sample						Initialize

Calibration DNPK							21/12/21, 15:06									^
Solution				DNPK						Tests			1			
Ca2+	m: 30.06	K+	m: 58.33	Mg2+	m: 25.22	(N) NH4+	m: 44.48	(N) NO3-	m: -38.98	(P) HPO42-	m: -37.99	Cl-	m: -43.78	Na+	m: 51.66

Test							21/12/21, 15:12									^
Ca2+	92.03 ppm	K+	203.51 ppm	Mg2+	18.30 ppm	(N) NH4+	20.81 ppm	(N) NO3-	141.60 ppm	(P) HPO42-	30.59 ppm	Cl-	105.67 ppm	Na+	64.13 ppm

Check:

1. Solutions are entering the flow cell, either by opening and viewing or 2 check the mV readings are stable and look normal, i.e similar to above. They should be stable in all solutions, 1 and 2, and when a sample is present
2. If the calibration and slopes look good, check by measuring solution 2
3. If the mV are not normal or stable and there are solutions coming in (enough to cover all sensors) check for any wires not attached properly
4. If solutions are coming in and the mV are not stable, and all wires are attached it needs a new reference electrode
5. If all looks good but one or more individual sensors are not working, we will send new sensors