



<b>Msg/Char</b>	<b>Contents</b>
0 / 2-4	Pavg1: Average pressure counts over first half of drift – Trajectory Information
0 / 5-6	Tavg2: 8 LSB of Average temperature over second half of drift – Trajectory Information
1 / 2-4	Tavg1: Average temperature counts over first half of drift – Trajectory Information
1 / 5-6	Pavg2: 8 LSB of average pressure over second half of drift – Trajectory Information
2 / 2-4	SPRX Average surface pressure at the surface from last cycle ARGO TECHNICAL NAME: PRES_SurfaceOffsetBeforeReset_dbar or PRES_SurfaceOffsetBeforeRest_5cbarResolution_dbar
3 / 2	Err: 4-bit error code. signifying a spurious interrupt, stack overflow or spurious reset.
3 / 3-4	Imin: Minimum depth bin with valid data according to the float In TS09: If the first bin is filled, Imin=1; ARGO TECHNICAL NAME: NUMBER_MinimumDepthBinWithValidData_COUNT
3 / 5-6	Bmax: Maximum depth bin with valid data according to the float In TS09: The number of good bins are stored in Bmax: Thus Bmax=Bmax+(Imin-1) ARGO TECHNICAL NAME: NUMBER_MaximumDepthBinWithValidData_COUNT

### **IDG Manual Errors which this document attempts to fix.**

The IDG manual SBE524 states P1,T1, and S1 are taken at the start of ascent. This is incorrect. They are taken at end of Park (this was later fixed in firmware SBE601 04May04).

The IDG manual SBE524 does not indicate that in the determination of T1, S1, T2, S2, T3, and S3, the counts must be divided by 4 before converting to the standard units.

	<b>Argo program measurement codes (MC)</b> <b>SOLO floats return the following Measurements and no other. However, enough spots</b>
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<b>in the Measurements array must be reserved for possible DMQC modification.</b>			
<b>Code (timing)</b>	<b>SOLO I Variable</b>	<b>Description</b>	<b>Units</b>
0	Cy 0	Deployment (Metafile)	Time,position
150	Cy>0: Eng "F"	PFE: Pressure taken at end of SOLO fall time (Eng "F", bytes 48-50)	P(0.5db)
296	Cy>0: Msg 0,1	Drift broken into two averaged halves. Stored in Msg 0,1 Bytes 2-6; Time is fill value.	P(0.5db),T(0.001°C), S(0.001psu)
300	Cy>0: Eng "F"	P,T,S triplet taken at end of drift (Eng "F", bytes 3-14)	P(0.5db); P(0.04db),T(0.001°C), S(0.001psu)
600	Cy>0: Eng "F"	PRE: Pressure taken at end of SOLO rise time (Eng "F", bytes 51-53)	P(0.5db)
702, 704	ARGOS messages	Time of first/last ARGOS messages received	
703	ARGOS positions	ARGOS positions received	
<p>SOLO floats return the previous Measurements and no other.  Enough spots in the Measurements array must be reserved for DMQC modification.</p> <p>For Cycle 0:  100(fillvalue),200(fillvalue),500(fillvalue),600(fillvalue),700(fillvalue),800(fillvalue)</p> <p>For Cycle&gt;0:  100(fillvalue),200(fillvalue),150(fillvalue),250(fillvalue),296,296,300(fillvalue),400(fillvalue),  500(fillvalue),600(fillvalue),700(fillvalue),800(fillvalue)</p>			