IRIDIUM DATA FORMAT – this is the Averaged Data that gets sent back via Iridium

```
CRNORM_CCKSM_SSIZE_YYYY/MO/DD_HH:MM:SS RRRRRRRR PPPPCR
MO/DD/YYYY_HH:MM:SS _NNNN.NNNN_n_EEEEE.EEEE_e_LLLLCR
LB.B_XB.B_Z.EROCOF_S.PANCOF_ S.PANCOF_FLAG_ SS.TMP_S.SDT_C.ONDTT_C.NDSD_SS.SALS_S.SLSD_sUU.U_U.SD_sVV.V_V.SD_RCC_RVV_RSSCR

MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 chars zero pump on
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char zero pump off
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char zero post cal
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char span pump on
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char span pump off
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char span post cal
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char equil pump on
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char equil pump off
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char air pump on
MM_TE.MP_T.SDT_BPR.ES_PR.SD_PCO.22_SD.PC_OX.Y_S.O_RH_S.R_RH.T_S.RT R1R1R1R1 0SDR1 R2R2R2R2 0SDR2CR //98 char air pump off
```

(Norm for Normal Mode, Fast for Fast Mode)

Run start TimeStamp

(Char Header) System S/N and Firmware Version

```
NORM 62207 08992 2004/11/15 09:00:01 SOFS 0021 06.10 04/28/2016
```

Date and time GPS Position Acquired (Position in Degrees, decimal minutes)

(GPS Line) Latitude Longitude Sec it took to acquire position

```
11/10/2005 03:16:04 4741.2037 N 12215.3194 W 0081
```

Logic Battery

Transmitter Battery

Zero Coefficient

Span Coefficient

Secondary Span Coefficient

SpanFlag_ZeroFlag

(Engineering And Licor)

```
 12.7 10.7 0.78168 1.15981 00.090506 FF00 00.000 0.000 00.00000 0.0000 00.0000 0.0000 000.0 0.00 000.0 0.00 000 000 000.0
```

	Min	LicorT	StdDev	LicorPress		xCO2		O2		RH		RH T		xCO2Raw1		xCO2Raw2	
(Zero Pump On)	01	25.77	0.026	097.64	00.01	-002.51	00.85	19.7	0.1	33	3.7	25.4	0.07	02467109	00242	01927683	00305
(Zero Pump Off)	02	25.96	0.027	100.71	00.01	-001.64	00.68	20.7	0.1	38	0.9	25.4	0.03	02466920	00201	01927866	00249
(Zero Post Cal)	03	26.15	0.025	100.73	00.00	0001.10	00.68	20.7	0.1	41	0.4	25.4	0.02	02465964	00243	01928053	00228
(Span Flow On)	04	26.39	0.024	102.84	00.01	0544.92	01.42	21.5	0.0	12	3.9	25.4	0.03	02277326	00240	01930068	00284
(Span Flow Off)	05	26.55	0.020	101.71	00.01	0546.00	01.16	21.4	0.0	20	1.7	25.4	0.02	02279708	00169	01930525	00217
(Span Post Cal)	07	26.71	0.023	101.70	00.01	0547.46	01.43	21.3	0.1	27	0.8	25.4	0.02	02279843	00159	01930791	00248
(Equil Pump On)	17	26.46	0.027	095.91	00.06	0436.76	05.62	19.0	0.1	65	4.8	25.5	0.02	02309813	06933	01925051	06864
(Equil Pump Off)	18	26.63	0.023	101.71	00.01	0434.94	01.15	20.6	0.1	65	0.3	25.6	0.03	02300836	00165	01924930	00224
(Air Pump On)	20	26.86	0.023	095.12	00.01	0372.86	01.13	19.1	0.1	63	0.2	25.5	0.02	02327984	00265	01925381	00349
(Air Pump Off)	21	27.00	0.022	101.69	00.01	0371.43	01.27	20.9	0.1	63	0.2	25.6	0.04	02318655	00197	01925187	00214

After each reading, which is a mean of data collect at 2Hz, there is a StdDev