
From: Luke Coletti
Sent: Monday, January 27, 2020 12:44 PM
To: Eric Martin
Subject: Re: Command Structure for T1/T2

Here's a more detailed explanation of the new MSC sample command format and responses -

// TAKE ISUS SAMPLE USING PASSED CTD VALS - T1, ESECS, TEMPERATURE, SALINITY, PRESSURE

T1,1580155271,25.123,33.456,1000.789<cr/lf>

returns ISUS data string (SL command) if passed CTD values are valid and ISUS sample collection was successful

e.g, Valid ISUS data always begins like this - 0xA74E,A, (CRC value is record dependent)

returns NAK,... if any passed CTD value is invalid or ISUS sample collection was not successful

e.g., CTD - "NAK,CTD,TRangeErr [-10,35.0]"

e.g., ISUS - "NAK,T1,DAT"

// TAKE DURA SAMPLE USING PASSED CTD VALS - T2, ESECS, TEMPERATURE, SALINITY, PRESSURE

T2,1580155271,25.123,33.456,1000.789<cr/lf>

returns DURA data string (SL command) if passed CTD values are valid and DURA sample collection was successful

e.g, Valid DURA data always begins like this - 0x402D,pH, (CRC value is record dependent)

returns NAK,... if any passed CTD value is invalid or DURA sample collection was not successful

e.g., CTD - "NAK,CTD,SRangeErr [-0.25,40.0]"

e.g., DURA - "NAK,T2,DAT"

// TAKE ISUS&DURA SAMPLE USING PASSED CTD VALS - T3, ESECS, TEMPERATURE, SALINITY, PRESSURE

T3,1580155271,25.123,33.456,1000.789<cr/lf>

returns ISUS & DURA data strings (SL command) if passed CTD values are valid and ISUS & DURA sample collection were successful

e.g, Valid ISUS data always begins like this - 0xA74E,A, (CRC value is record dependent)

e.g, Valid DURA data always begins like this - 0x402D,pH, (CRC value is record dependent)

returns NAK,... if any passed CTD value is invalid or ISUS or DURA sample collection was not successful

e.g., CTD - "NAK,CTD,SRangeErr [-0.25,40.0]"

e.g., ISUS - "NAK,T3,ISUSDAT"

e.g., DURA - "NAK,T3,DURADAT"

On 1/22/20 5:08 PM, Eric Martin wrote:

Luke,

Do you have documentation for the new command prototypes for the T1/T2 commands?

Eric

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