



4.6 CF – Configuration

OPERATION:

This command is use to modify configuration settings.

SYNTAX: {*bb*} *aa*CF

PASSWORDLEVEL: userpw

EXPLANATION:

aa is the Configuration Code

bb is the Setting

Note: the '*' denotes the factory default settings.

01 - Beeper tone as follows:

00 - Off*

01 - On

05 - Auto transmit modes as follows:

00 - Off*

01 - On

Note: This autotransmit configuration will be set to its default (disabled) setting on any reset.

07 - Response data separator modes as follows:

00 - space

01 - comma*

02 - tab

03 - carriage return

04 - carriage return & line feed

05 - line feed

08 - Response delimiter when in RCI mode as follows:

00 - carriage return

01 - carriage return & line feed*

02 - line feed

0A - Decimal precision as follows:

00 - .

01 - .0

02 - .00*

03 - .000

04 - .0000

16 - Illuminant/Observer types as follows:

00 - A_2

01 - A_10

02 - C_2

03 - C_10

04 - D50_2*

05 - D50_10



06 - D65_2
07 - D65_10
08 - F2_2
09 - F2_10
0A - F7_2
0B - F7_10
0C - F11_2
0D - F11_10
0E - F12_2
0F - F12_10
10 - D75_2
11 - D75_10
12 - D55_2
13 - D55_10

18 – Data output types as follows:

00 - Not Used
01 - Not Used
02 - Not Used
03 - Reflectance*
04 - Lab
05 - XYZ
06 - Yxy
07 - xyY
08 - LCh (if labels on, h° is an angle in degrees)
09 - Not Used

1A – Multiple data type output control

00 - No multiple types enabled*
01-FF – Multiple data type output enabled per bit fields as defined below.

0x01 - ENABLE_SPECTRAL
0x02 - ENABLE_Lab
0x04 - ENABLE_XYZ
0x08 - ENABLE_Yxy
0x10 - ENABLE_LCh
0x20 - Not Used
0x40 - Not Used
0x80 - Not Used

For example, the command 03CF would enable the transmission of both spectral and Lab data for each reading.

1B – Format for transmission of spectral data

00 - Transmit spectral data in true ASCII format*
01 - Transmit in big endian (Motorola) byte order (16bit with 200/65535 bit weighting to translate to percent reflectance)

With Auto-Transmit enabled while 1BCF config switch is set to 0x01:
Auto-Transmit response for a strip read will simply report the strip ID of the strip that was read followed by the status code. At this point, SetMsgTerminator() should be called to the XDSIII API to set the terminator to NONE_TERMNATOR. Request the reported strip via the xxx01TS command. The TS command will return 62 bytes of binary data for each patch in the strip (NO <CRLF> APPENDED).



22 –State auto transmit
00 - Off*
01 - On

When this switch is enabled, unit will transmit the current state code in the format of CS aa{rrgggbbb}<cr>. Where aa identifies states 1-12, and the {rrgggbbb} is provided only when in state 12. All data will be transmitted as decimal values. Default setting of this switch is disabled. See CS command for specific response of the various state codes.

Note: This autotransmit configuration will be set to its default (disabled) setting on any reset.

For additional information see the Make Permanent (MP) command. (Note that the 05Cf and 22CF autotransmit configurations are not retained by the MP command.)

RESPONSE:

If the bb parameter is not omitted the specified configuration switch is set to the specified value.
<sc>

If the bb parameter is omitted the current setting for the specified configuration code is returned.
bb
<sc>

ERRORS:

NO_ERROR
BAD_PARAMETERS
PRM_RANGE_ERROR