

SPECTEC

THUNDERBIRD INTERNATIONAL CORPORATION
P.O. Box 360, Emigrant, MT 59047 USA
(406) 333- 4967 FAX: (406) 3334259
www.spectecsensors.com

4057 SERIES USER GUIDE



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Device Overview

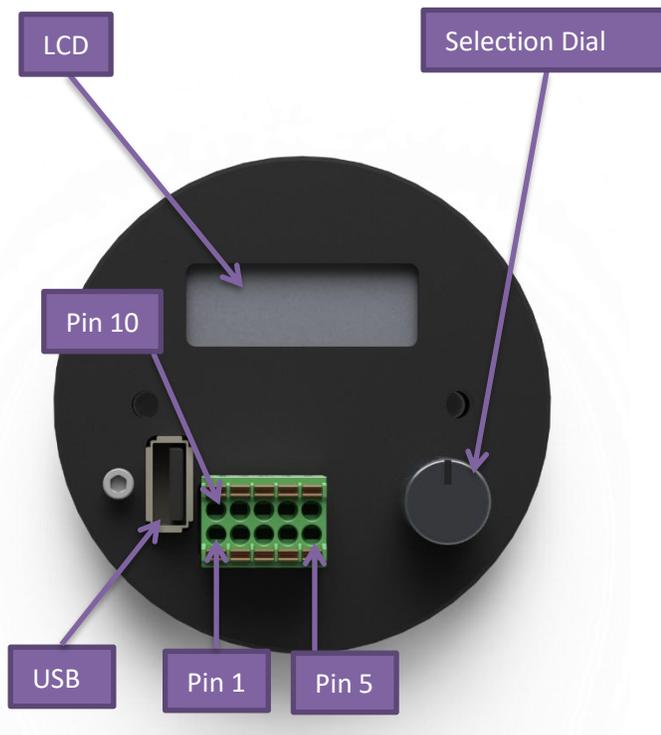


Figure 1: 4057B

4057B Pinout

- Pin 1: DC input (12V-30V)
- Pin 2: Common (-)
- Pin 3: FTC or FTV output
- Pin 4: Mag Coil + (VRS)
- Pin 5: RF Coil
- Pin 6: RF Coil
- Pin 7: Mag Coil - (VRS)
- Pin 8: Digital Output
- Pin 9: Common (-)
- Pin 10: Digital Input

DO NOT DISCONNECT POWER FROM DEVICE WHILE IN LCD SETUP MODE CONFIGURATION MAY NOT BE SAVED.

PRESSING DOWN ON THE SELECTION DIAL TO TURN ON THE SCREEN WILL TAKE YOU TO THE MAIN MENU.

IF THE DISPLAY TURNS OFF WHEN IN LCD SETUP MODE SETTINGS MAY NOT BE SAVED. MAKE SURE TO EXIT TO OVERVIEW SCREENS TO SAVE SETTINGS.

Definitions

LCD Setup Mode: Configuration is done through the LCD using the selection dial (Figure 1).

USB Setup Mode: Configuring the device is done by a file that is generated by the “4057 Series Configuration Software”. (Can be downloaded from our website. WWW.SPECTECSENSORS.COM)

Overview Screens: Rotating the selection dial allows the user to view how the device is configured and view the current condition of the input and outputs.

Main Menu: This is the root menu for setting up the device when in LCD setup mode (Figure 2).

LCD User Interface Overview

Rotate the selection dial to move the cursor (*) on screen. Rotating clockwise moves the cursor to the next on-screen option, rotating counter clockwise moves the cursor to the previous option. Pressing down on the control dial makes a selection. Values use a black cursor and can be changed by using the selection dial. Simply rotate the selection dial to move the black cursor until it highlights the value to be changed. Momentarily press down on the control dial to make the selection. Rotate the dial clockwise to increase the value and counter clockwise to decrease the value. Momentarily press down on the control dial to set the value and allow the cursor to move to the next option.

If the LCD has turned off (typically after 1 minute of inactivity) simply rotate the selection dial to turn on the screen. This can also happen when in LCD Setup Mode and if so, the device will return to the Overview Screens and the user will need to redo the device configuration.

LCD Setup Mode

Entering LCD Setup Mode

- 1) Apply power to the 4057B.
- 2) When you see “Push Button to Enter Setup” momentarily press down on the selection dial. If you do not see the above message, rotate the selection dial until you do.
- 3) Enter password when applicable. See [Password Entry](#) for instructions.
- 4) The menu in Figure 2 will appear.

Main Menu

Input*	Output
Options	Exit

Figure 2: Main Program Menu.

“**Input**” allows user to select from input sources: Digital, Mag, or RF see [Input Setup](#).

“**Output**” configures the Digital and DAC output pins. see [Output Type Setup](#) and [Analog Setup](#).

“**Options**” configures the display, password, date and time, and device reset see [Options Setup](#).

“**Exit**” selection exits program mode and saves configuration settings see [Exiting LCD Setup Mode](#).

Exiting LCD Setup Mode

- 1) Return to the Main menu (Figure 2).
- 2) Rotate the selection dial until the cursor moves to the “Exit” option.
- 3) Momentarily press down on the selection dial to exit.
- 4) All settings are saved.

Password Entry

- 1) When enabled you will be prompted for a password (Figure 11) when entering LCD setup mode. You will start at the first digit automatically.
- 2) Rotate the dial until the value you want is displayed.
- 3) Momentarily press down on the selection dial to set the value.
- 4) You will be taken automatically to the next digit. Repeat steps 2 and 3 until all four digits are set.
- 5) After setting the fourth digit you can rotate the selection dial and choose from \rightarrow or \leftarrow . \rightarrow will take you to the main menu if the password is correct (Figure 2) or \leftarrow will clear the password allowing you to re-enter the password if you made a mistake. See [Options Setup](#) for instructions on setting up a password.

Input Setup

Mag*	RF
	Digital

Figure 3: Input Menu.

- 1) Move cursor next to desired input.
- 2) Momentarily press down on selection dial.
- 3) After selection is made you will be returned to main menu (Figure 2).

“**Digital**” enables the digital input (default).

“**Mag**” enables the magnetic pickup input (VRS).

“**RF**” enables the RF input (RF4 or RF10 depending on model).

ALL INPUT OPTIONS ARE DISPLAYED EVEN IF MODEL PURCHASED DOES NOT HAVE THAT INPUT OPTION AVAILABLE.

Options Setup

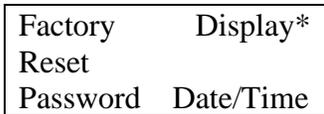


Figure 4: Options Menu.

“**Factory Reset**” sets the unit back to factory defaults including the password.

“**Display**” allows the user to change the timer for the backlite and display (Figure 7).

“**Password**” allows user to set up a 4-digit numeric password. When entering the main menu (Figure 2) the user will be prompted for the password. Overview screens can still be viewed without entering the password.

“**Date/Time**” sets date and time (24-hour format).

Factory Reset:

- 1) After selecting factory reset you will see the following screen.

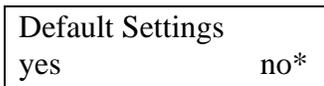


Figure 5: Factory Reset.

- 2) Selecting yes will take you to the following screen and no will take you to the main menu (Figure 2).

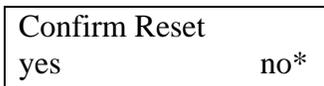


Figure 6: Confirm Reset.

- 3) You will be prompted to confirm your choice. Yes will reset the device to factory defaults and no will take you to the main menu (Figure 2) and will not affect any settings.

Display:



Figure 7: Display Options.

BackLite Setup:

After selecting BackLite you will see Figure 8. You can set the timer from 000 to 255. 000 will permanently turn the backlight off and 255 will permanently turn it on. Values 001-254 will cause the back light to turn off after set time of inactivity. If a value >255 is entered the device will default to 255. Factory default is for 30 seconds.

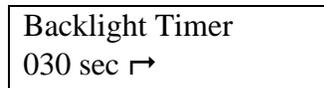


Figure 8: BackLite.

- 1) To set up the timer select the appropriate digit by rotating the selection dial to highlight the digit you want to change.
- 2) Momentarily press down on the selection dial.
- 3) Rotate the dial until the digit changes to the desired value then momentarily press down on the selection dial again to set the value.
- 4) Repeat steps 2-4 to set up the remaining digits.
- 5) After entering the value move the cursor to → and momentarily press down on the selection dial. This will take you back to the main menu (Figure 2).

LCD Timer Setup:

After selecting LCD time, you will see Figure 9. You can set the timer from 010 to 255. The minimum time that can be set is 010. Setting it to 255 will permanently turn on the display. The values 010-254 will cause the LCD to turn off after set time of inactivity. The LCD timer cannot be set <010, if it is it will default to 010. If a value of >255 is entered the device will default to 255. Factory default is set for 60 seconds.

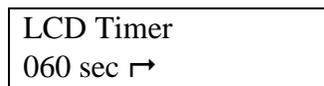


Figure 9: LCD Timer.

- 1) To set up the timer select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.
- 2) Momentarily press down on the selection dial.
- 3) Rotate the dial until the digit changes to the desired value then momentarily press down on the selection dial again to set the value.
- 4) Repeat steps 2-4 to set up the remaining digits.
- 5) After entering the value move the cursor to \rightarrow and momentarily press down on the selection dial. This will take you back to the main menu (Figure 2).

Password:

- 1) After selecting password, the following screen will be displayed (Figure 10).

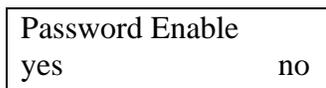


Figure 10: Password Enable.

- 2) Selecting yes will take you to password entry (Figure 11). No will take you back to main menu (Figure 2).



Figure 11: Password Entry.

- 3) You will be taken to the first digit automatically. Rotate the dial until the value you want is displayed.
- 4) Momentarily press down on the selection dial to set the value.
- 5) You will be taken automatically to the next digit.
- 6) Repeat steps 3 and 4 until all four digits are set.
- 7) After setting the fourth digit you can rotate the selection dial and choose from \rightarrow or \leftarrow . \rightarrow will set the password and take you back to the main menu (Figure 2) or \leftarrow will reset the password and will allow you to re-enter the password if you made a mistake or want to change it. Momentarily press down on the selection dial to choose.
- 8) If you need to disable the password return to Password Enable (Figure 10) and choose no. This will remove and disable the password.

DO NOT FORGET TO RECORD YOUR PASSWORD IN A SECURE LOCATION. IF YOU LOSE YOUR PASSWORD THE DEVICE WILL HAVE TO BE SENT BACK TO THE FACTORY TO BE RESET AND ALL SETTINGS WILL BE LOST.

A FACTORY RESET WILL DISABLE THE PASSWORD.

Date/Time:

- 1) After selecting Date/Time, the following screen will be displayed (Figure 12).

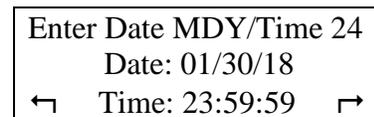


Figure 12: Date & Time Entry.

- 2) To set the date and time select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.
- 3) Momentarily press down on the selection dial.
- 4) Rotate the dial until the digit changes to the desired value then momentarily press down on the selection dial again to set the value.
- 5) Repeat steps 2-4 to set up the remaining digits.
- 6) After entering the value move the cursor to \leftarrow or \rightarrow and momentarily press down on the selection dial. Both will set the date/time and take you back to the main menu (Figure 2).

THERE IS NO BATTERY BACKUP, IF THE UNIT IS UNPLUGGED OR LOOSES POWER THE DATE AND TIME WILL BE RESET.

Output Type Setup

Hz	rpm	gpm	
BPH	LPM	LPH	
fps	Mph	m/s	kph
K factor			

Figure 13: Output Type Menu.

These options can be broken down into three categories: Hz, EU, and K-factor.

- 1) **“Hz”** This option gives the ability to set up a digital output with a multiplier or divider functionality and an analog output. Selecting this option will display Figure 14.

	Back*
Analog	Digital

Figure 14: Output Setup.

“Back” Returns you to the *Main Menu* when finished setting up outputs. (Figure 2)

“Analog” Configuration settings for the DAC output. See *Analog Setup*.

“Digital” Configuration settings for the digital output. See *Digital Output Setup (Hz Selection only)*.

- 2) **“EU”** (rpm, gpm, BPH, LPM, LPH, fps, Mph, m/s, kph) these options allow the user to set up a conversion that gives an output based on a target count. These units will be referred to as EU (engineering units) for the rest of this document. See *EU Setup*.

Abbreviation definitions for EU:

rpm = Revolutions per minute

gpm = Gallons per minute

BPH = Barrels per hour

LPM = Liters per minute

LPH = Liters per hour

fps = Feet per second

Mph = Miles per hour

m/s = Meters per second

kph = Kilometers per hour

- 3) **“K-factor”** The user can set up a linear scaler with 2-16 points. See *K-factor Setup*.

Digital Output Setup (Hz Selection only)

Multiply*	Disable
Divide	

Figure 15: Digital Output (Hz).

“Multiply” Increase the number of input targets.

“Divide” Decrease the number of input targets. This option also allows for a custom duty cycle and an invert output option.

“Disable” No digital output when this option is selected.

Multiplier Setup:

Multiply by
000001.000↔

Figure 16: Multiply Selection.

- 1) **“000001.000”** To set up a multiplier value select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.
- 2) Momentarily press down on the selection dial.
- 3) Rotate the dial until the digit changes to the desired value.
- 4) Momentarily press down on the selection dial to set value.
- 5) Repeat steps 2-4 to set up remaining digits.
- 6) When done select “↔” to return to output setup (Figure 14).

Divider Setup:

Divide by
000001.000↔

Figure 17: Divide Selection.

- 1) **“000001.000”** To set up a divider value select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.
- 2) Momentarily press down on the selection dial.
- 3) Rotate the dial until the digit changes to the desired value.

- 4) Momentarily press down on the selection dial to set the digit.
- 5) Repeat steps 2-4 to set up remaining digits.
- 6) When done select “↵” to move to next step. (Figure 18).

Custom Duty Cycle	
Yes	No

Figure 18: Custom Duty Cycle.

“Yes” Allows for a custom duty cycle (see Figure 19).

“No” No custom duty cycle, defaults to 50%. The user will then be taken to the invert option (see Figure 20).

Custom Duty Cycle	
50%	↵

Figure 19: Custom Duty Cycle Setup.

- 1) To set up a custom duty cycle, select one of the two digits by rotating the selection dial and highlighting the digit you want to change.
- 2) Momentarily press down on the selection dial.
- 3) Rotate the dial to change to desired value.
- 4) Momentarily press down on the selection dial to set the digit.
- 5) Repeat steps 2-4 if change is needed for the other digit.
- 6) When done select ↵ and momentarily press down on the selection dial to take you to the invert output option (Figure 20).

Invert Output	
Yes*	No

Figure 20: Invert Output Setup.

This option allows you to invert the output when compared to the input. After selecting yes or no you will be taken back to the output setup screen (Figure 14). If a divider is being used it may not be detectable that the output is inverted.

EU Setup

Pulses per unit time: 000001 →

Figure 21: Target Count.

- 1) After selecting one of the EUs you will be prompted for “Pulses per unit time”. This is the number of pulses needed to equal 1EU. (Figure 21)
 - a. Example: If you want a pulse for every revolution for a 60-tooth gear you would select rpm (Figure 13) and enter 60 into the screen above. This would result in a pulse for every revolution per minute and display the current rpm on the overview screens. The DAC output is converted as well.
- 2) To set up a value, select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.
- 3) Momentarily press down on the selection dial.
- 4) Rotate the dial until the digit changes to the desired value.
- 5) Momentarily press down on the selection dial to set the digit.
- 6) Repeat steps 2-5 to set up the remaining digits.
- 7) After entering the value move the cursor to the arrow and momentarily press down on the selection dial.
- 8) You will be taken back to the output setup (Figure 14).

K-factor Setup

Gpm	BPH	LPM
LPH	GPH	m ³ /h
m ³ /min	cfm	ft ³ /h

Figure 22: Unit Selection.

- 1) Select needed unit of measure to be displayed.
- 2) Set the number of K-factors needed by rotating the dial and highlighting the two-digit number you see in Figure 23. The minimum number of K-factors you can have is 2 and the maximum is 16.

Number of Kfactors
02↔

Figure 23: Number of K-factor Entry.

- 3) Momentarily press down on the selection dial to set the value.
- 4) Use selection dial to move to the next step in setup by selecting ↔ and pressing down on the selection dial.
- 5) The next screen will prompt you for the frequency range and the K-factor value for that range.

Enter Freq/Kfactor # 1
Freq: 00000.000
↵ kFac: 00000.000 ↵

Figure 24: Freq\K-factor Entry.

- 6) To enter the values, rotate the selection dial to select the appropriate digit.
- 7) Momentarily press down on the selection dial.
- 8) Rotate the selection dial to change the value.
- 9) Momentarily press down on the selection dial to set the digit. Then rotate the dial to the next digit that needs adjusted.
- 10) The arrows in the lower right and left corners are used to navigate to the next (↵) or previous (↵) Freq. and K-factor.
- 11) After all the values have been entered you will be prompted to enable or disable the digital output (Figure 25).

Digital Output	Enable*
	Disable

Figure 25: Digital Output

- 12) After choosing to enable or disable the digital output you will be prompted to enable or disable the analog output.

DAC Output	Enable*
	Disable

Figure 26: Analog Output

- 13) If you select Enable, see [Analog Setup](#) for instructions on how to set up the DAC. Selecting Disable will take you back to the main menu (Figure 2).

Abbreviation definitions for K-factor:

Gpm = Gallons per minute

BPH = Barrels per hour

LPM = Liters per minute

LPH = Liters per hour

GPH = Gallons per hour

m³/h = Cubic meters per hour

m³/min = Cubic meters per minute

cfm = Cubic feet per minute

ft³/h = Cubic feet per hour

Analog Setup

FTV	FTC*
Disable	Back

Figure 27: Analog Menu.

“**FTV**” Frequency to voltage setup.

“**FTC**” Frequency to current setup.

“**Disable**” Disables the analog output.

“**Back**” Takes you back to output setup (Figure 14).

- 1) Use the selection dial to choose FTV or FTC. After making your selection press down on the selection dial. You will see one of the following screens.

0-5V	0-10V*
	Back

Figure 28: FTV Range Selection.

4-20mA	0-20mA*
0-24mA	Back

Figure 29: FTC Range Selection.

“**Back**” Returns you to the analog menu (Figure 27).

- 2) After choosing the output type and range you will see the following (Figure 30).

Minimum __
000000.000↔

Figure 30: FTV/FTC Minimum.

“__” Hz or the EU that was selected will be displayed here.

IF THIS IS BEING SETUP FOR AN EU ALL ENTERED VALUES MUST BE IN THAT EU FORMAT. EXAMPLE: IF YOU HAVE SELECTED RPM AND YOUR MINIMUM VALUE IS 32 RPM THE ENTERED MINIMUM SHOULD LOOK LIKE 000032.00.

- 3) To set up your minimum value select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.

- 4) Momentarily press down on the selection dial.
- 5) Rotate the selection dial until the digit changes to the desired digit.
- 6) Momentarily press down on the selection dial again to set the value.
- 7) Repeat steps 3-6 to set up the remaining digits.
- 8) After setting up the min range selecting ↗ will take you to max entry (Figure 31).

Maximum __
100000.000↔

Figure 31: FTV/FTC Maximum.

“__” Hz or the EU that was selected will be displayed here.

- 9) To set up your maximum value select the appropriate digit by rotating the selection dial and highlighting the digit you want to change.
- 10) Momentarily press down on the selection dial.
- 11) Rotate the dial until the digit changes to the desired value.
- 12) Momentarily press down on the selection dial to set the value.
- 13) Repeat steps 9-12 to set up remaining digits.
- 14) After setting up the max range selecting ↗ will take you back to output setup (Figure 14).

Updating Firmware

USER CONFIGURATION WILL BE RESET (INCLUDING PASSWORD) AND THE DEVICE WILL NEED TO BE RECONFIGURED UPON COMPLETION OF A FIRMWARE UPDATE.

DO NOT POWER DOWN DEVICE DURING FIRMWARE UPDATE.

If needed contact factory for latest firmware. It may be available on our website for download. If the files are zipped extract them before copying them onto a USB thumb drive.

- 1) Copy files onto the root directory of a USB thumb drive (it is recommended to use a blank USB thumb drive).
- 2) Power down the 4057B.
- 3) Insert thumb drive containing update.
- 4) Press and hold down the selection dial.
- 5) Power up the device.
- 6) Release selection dial once update has started.
- 7) After updating is complete the 4057B will start up in the updated application.
- 8) Power down the device and remove thumb drive.
- 9) Power up device and reconfigure.
- 10) Verification of update can be done by checking firmware version under “Push Button to Enter Setup” in the overview screens.

USB SETUP MODE

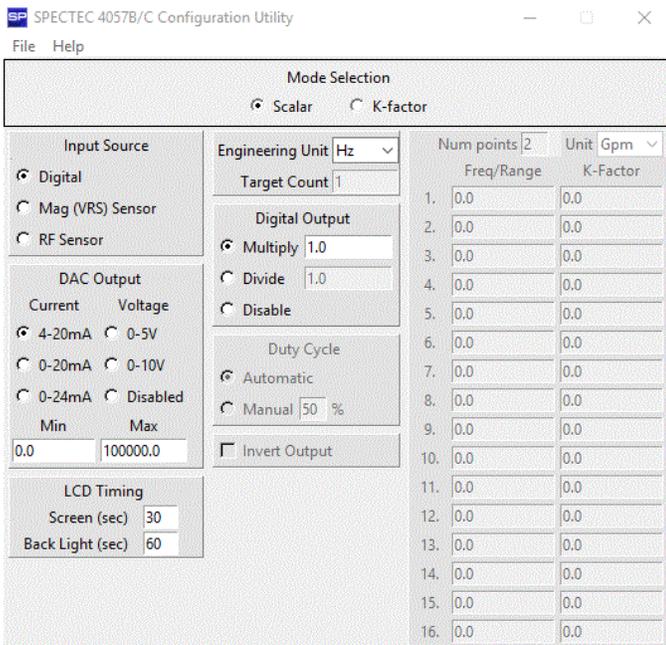


Figure 1B: 4057 Series Configuration Software

USB User Interface Overview

Configuration of the 4057 can be done through the USB port by using the 4057 Series Configuration Software. Using this simple user interface allows quick set up times and batch programming of devices that have the same parameters.

Installation Instructions

- 1) Download install file from the product page at WWW.SPECTECSENSORS.COM
- 2) Open file from saved location.
- 3) Double click on file to install.
- 4) You will be prompted to agree to the EULA.
- 5) The next window will prompt you for a desktop shortcut.
- 6) On the final window click install to finish.

THE PASSWORD CANNOT BE SET UP FROM THE CONFIGURATION SOFTWARE. IT MUST BE DONE THROUGH THE LCD SETUP MODE.

Menu Bar

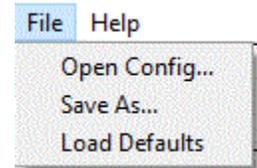


Figure 2B: File

“File” Here you will find Open Config, Save As, and Load Defaults.

“Open Config” You can open and edit a previously saved configuration file.

“Save As” Here you can save the configuration and then transfer the file to a USB thumb drive to program the 4057. (See [Loading Configuration](#))

“Load Defaults” Resets all the options in the configuration software back to factory defaults.

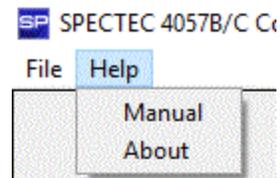


Figure 3B: Help

“Help” gives access to this user manual and information about the developer.

WHEN SAVING THE CONFIGURATION, YOU CAN NAME IT ANYTHING YOU WANT BUT WHEN YOU PROGRAM THE 4057 THE FILE MUST USE THE FOLLOWING NAME AND FILE EXTENSION FOR THE 4057 TO RECOGNIZE THE FILE: in_cfg.csv

Mode Setup

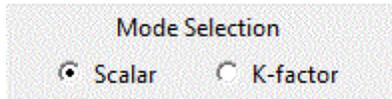


Figure 4B: Mode Selection

“**Scalar**” Enables set up of multiplier, divider, DAC, and engineering units.

“**K-factor**” Enables set up of 2-16 point linear K-factor.

Input Source Setup

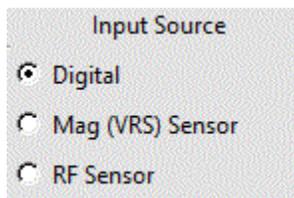


Figure 5B: Input Source

“**Digital**” Enables the digital input (default).

“**Mag (VRS) Sensor**” Enables the magnetic pickup input (VRS).

“**RF Sensor**” Enables the RF input (RF4 or RF10 depending on model).

Unit Selection Setup

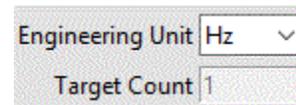


Figure 6B: EU

Here you can select Hz or an EU (Engineering Unit). If an EU is selected you will need to fill in the target count. This is the number of pulses needed to equal 1 EU. See [Output Type Setup](#) in the LCD setup section for definition of EU.

Example: If you want a pulse for every revolution for a 60-tooth gear you would select rpm from the drop down and enter 60 into the target count field. This would result in a pulse for every revolution. The DAC output is converted as well.

DAC Output Setup

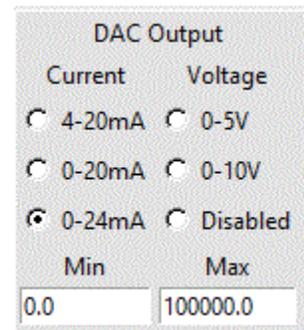
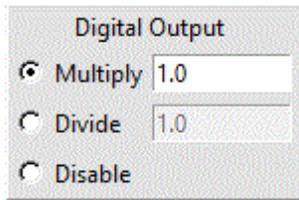


Figure 7B: DAC Output

Options for the analog output are located here.

IF THIS IS BEING SET UP FOR AN EU ALL ENTERED VALUES MUST BE IN THAT EU FORMAT. EXAMPLE: IF YOU HAVE SELECTED RPM AND YOUR MINIMUM VALUE IS 32 RPM THE ENTERED MINIMUM SHOULD LOOK LIKE 32.0

Digital Output Setup



Digital Output

Multiply 1.0

Divide 1.0

Disable

Figure 8B: Digital Output

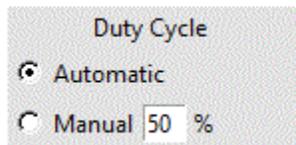
“Multiply” Select this option to increase the number of input targets.

“Divide” Select this option to decrease the number of input targets. This option also allows for a custom duty cycle and an invert output option.

“Disable” There is no digital output when this option is selected.

The above options are only available for the scalar mode (Figure 4B) and Hz unit (Figure 6B).

Duty Cycle Setup



Duty Cycle

Automatic

Manual 50 %

Figure 9B: Duty Cycle

A custom duty cycle is only available for a scalar setup with the divider function enabled.

“Automatic” selection keeps the digital output at a 50% duty cycle.

“Manual” selection allows the user to set up a custom duty cycle for the digital output.

Invert Output Setup



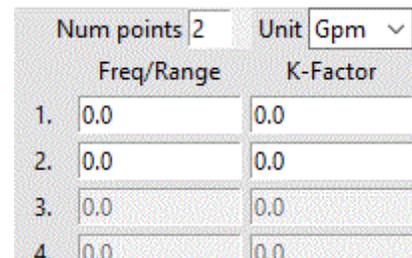
Invert Output

Figure 10B: Invert Output

Checking this box will invert the digital output when compared to the input.

The invert option is only available for a scalar setup with the divider function enabled. If a divider is being used it may not be detectable that the output is inverted.

K-factor Setup



	Num points 2	Unit Gpm
	Freq/Range	K-Factor
1.	0.0	0.0
2.	0.0	0.0
3.	0.0	0.0
4.	0.0	0.0

Figure 11B: K-factor

“Num points” Changing this value determines the number of K-factors to be entered. You can have 2-16 K-factor points.

“Unit” assigns a unit of measure to the K-factor that will be displayed on the LCD.

“Freq/Range” Enter the range for the corresponding K-factor in this field.

“K-Factor” Enter the K-factor for the corresponding frequency/range in this field.

Display Settings Setup

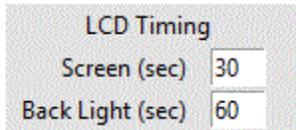


Figure 12B: Display Settings

“**Screen**” controls the display. You can set this timer from 010 to 255. The minimum time that can be set is 010. Setting it to 255 will permanently turn on the display. The values 010-254 will cause the display to turn off after set time of inactivity. The timer cannot be set to <010, if it is it will default to 010. If a value of >255 is entered the device will default to 255.

“**Back Light**” controls the light. You can set this timer from 000 to 255. The value 000 will permanently turn the light off and 255 will permanently turn it on. Values 001-254 will cause the back light to turn off after set time of inactivity. If a value of >255 is entered the device will default to 255.

Loading Configuration Onto 4057B

- 1) Copy in_cfg.csv that was created with the configuration software onto the root directory of a blank USB thumb drive.
- 2) Apply power to the 4057B and wait until the device has booted.
- 3) Make sure the device is not in program mode but in overview screens.
- 4) Plug the thumb drive into the USB port on the 4057B.
- 5) If the 4057B is password protected you will be prompted to enter the password before the unit allows you to program it (See [Password Entry](#)).
- 6) After a few seconds the device is ready. Scroll through the overview screens to verify your configuration has been applied.
- 7) Remove the USB thumb drive.
- 8) Power cycle the device.

WHEN LOADING THE CONFIGURATION ONTO THE 4057B THE FILE MUST USE THE FOLLOWING NAME AND FILE EXTENSION FOR THE 4057 TO RECOGNIZE THE FILE: in_cfg.csv

A FILE WILL BE GENERATED ON THE USB (output_cfg.csv). THIS FILE CAN BE USED TO CONFIRM CONFIGURTAION OF THE DEVICE OR CAN BE SENT TO SPECTEC FOR EVALUTAION IF AN ISSUE OCCURS.