

DIGITAL TEMPERATURE LOGGER

with built-in OHM tester and DataTrack software.



The DTL is a portable instrument that measures, stores, and prints out grain temperatures. Each printout displays the company name, time, bin number, cable number, TC number, and 4 sets of temperature readings with the reading dates. The optional DTL DataTrack software running in Microsoft Windows® reads, stores, and analyzes data from the DTL.

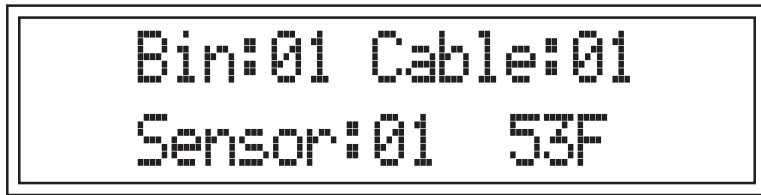


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DIGITAL TEMPERATURE LOGGER



Liquid Crystal Display (4" x 1")

The DTL is a portable unit that will measure, store and print out grain temperatures. Each printout will display the bin number, cable number, TC number, and the last 4 temperature scans along with your company name and the date and time. The printer output is through a standard parallel interface to full-size paper and does not require a computer. The DTL DataTrack software runs in Microsoft Windows© and reads, stores and analyzes the reading from the DTL.

<u>SPECIFICATIONS:</u>	
THERMOCOUPLE SENSOR.....	Type T
CASE SIZE.....	8 1/2"W x 7"D x 3 1/2"H
BATTERY POWER.....	3 standard "AA" Alkaline batteries
WEIGHT.....	3 lbs. (1.4 Kg.)
OPERATING TEMPERATURE.....	32°F to 185°F (0° to 85° C)
PRINTER INTERFACE.....	Standard Serial (COM) port
INTERNAL MEMORY CAPACITY.....	Bins: 1 to 99
	Cables/Bin 1 to 99
	TCs/Cable 1 to 18
	Memory 4 sets of 6000 readings

Available Models:

DTL-06	6 TC Jack handle	#809.0406
DTL-12	12 TC Jack handle	#809.0412
DTL-18	18 TC Jack handle	#809.0418

FEATURES:

*Real-time clock, set it and forget it

Runs for 10 years on an separate internal battery.
Displays month, year, day, hour, minute, AM/PM.

*Ease of programming

Programming functions appear on the LCD display telling the user what is happening and what to do next.

*Optional DTL DataTrack software

DTL DataTrack reads, analyzes and stores temperature reading from the DTL.

*Large alpha-numeric LCD display

Two line 16 character display shows everything at once.
Super-twist LCD is easy to read in sunlight or shade.

*Low power consumption

The system operates on 3 standard "AA" batteries. Low energy components allow the DTL to operate about 60-70 hours of continuous operation. Memory is held in EEPROM so the power consumption is zero when the instrument is turned off.

Note: When shipping this unit please place packing inside the unit to prevent the jack-handle from bouncing around.

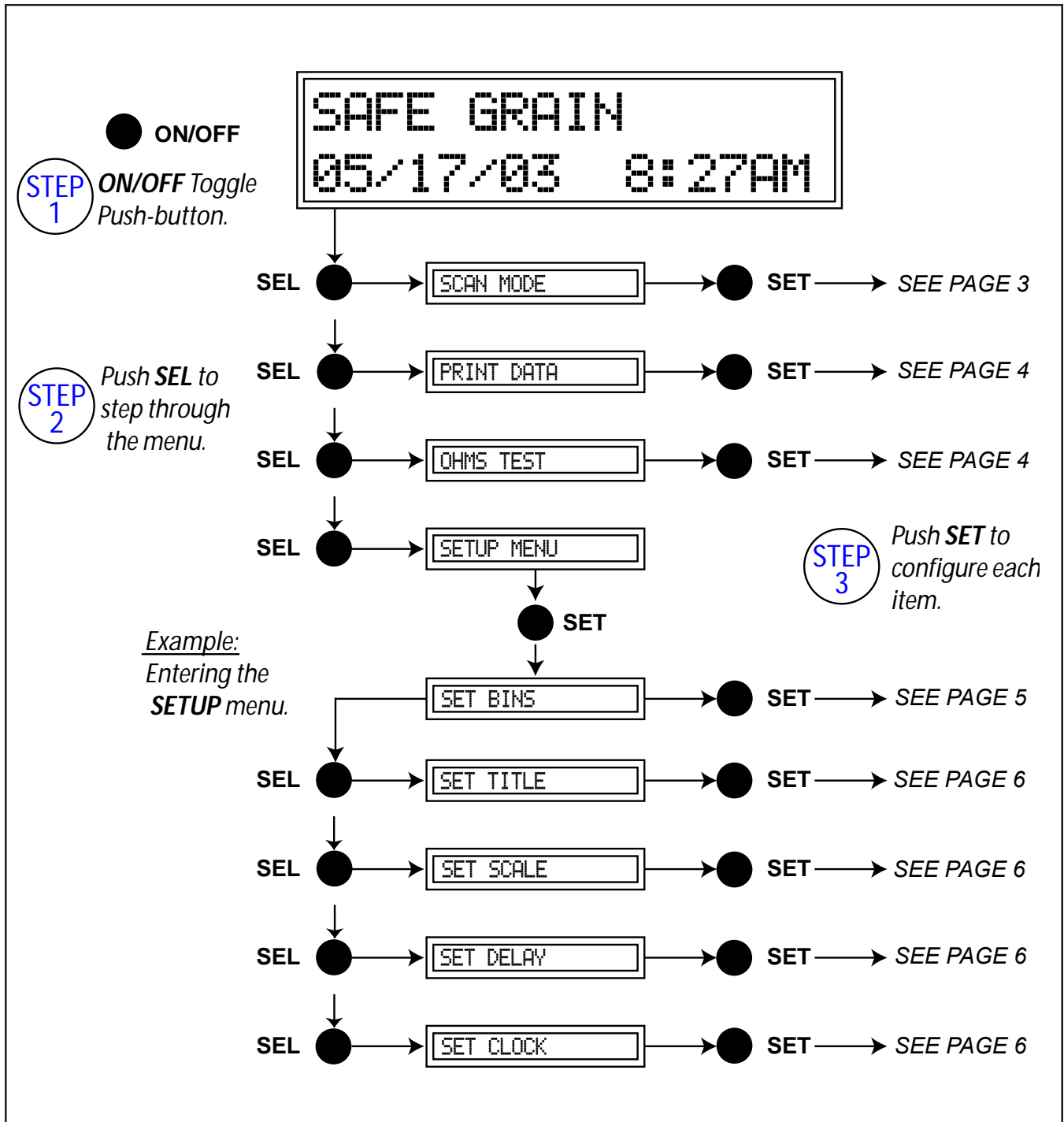
USE AND OPERATION:

To turn ON or OFF: Press the yellow ON/OFF Button

CAUTION: Do not attach a DTL to a temperature cable while filling the bin. Static charges may damage the unit.

FUNCTION OVERVIEW:

Use the **SEL** button to select a function and the **SET** button to configure that function.

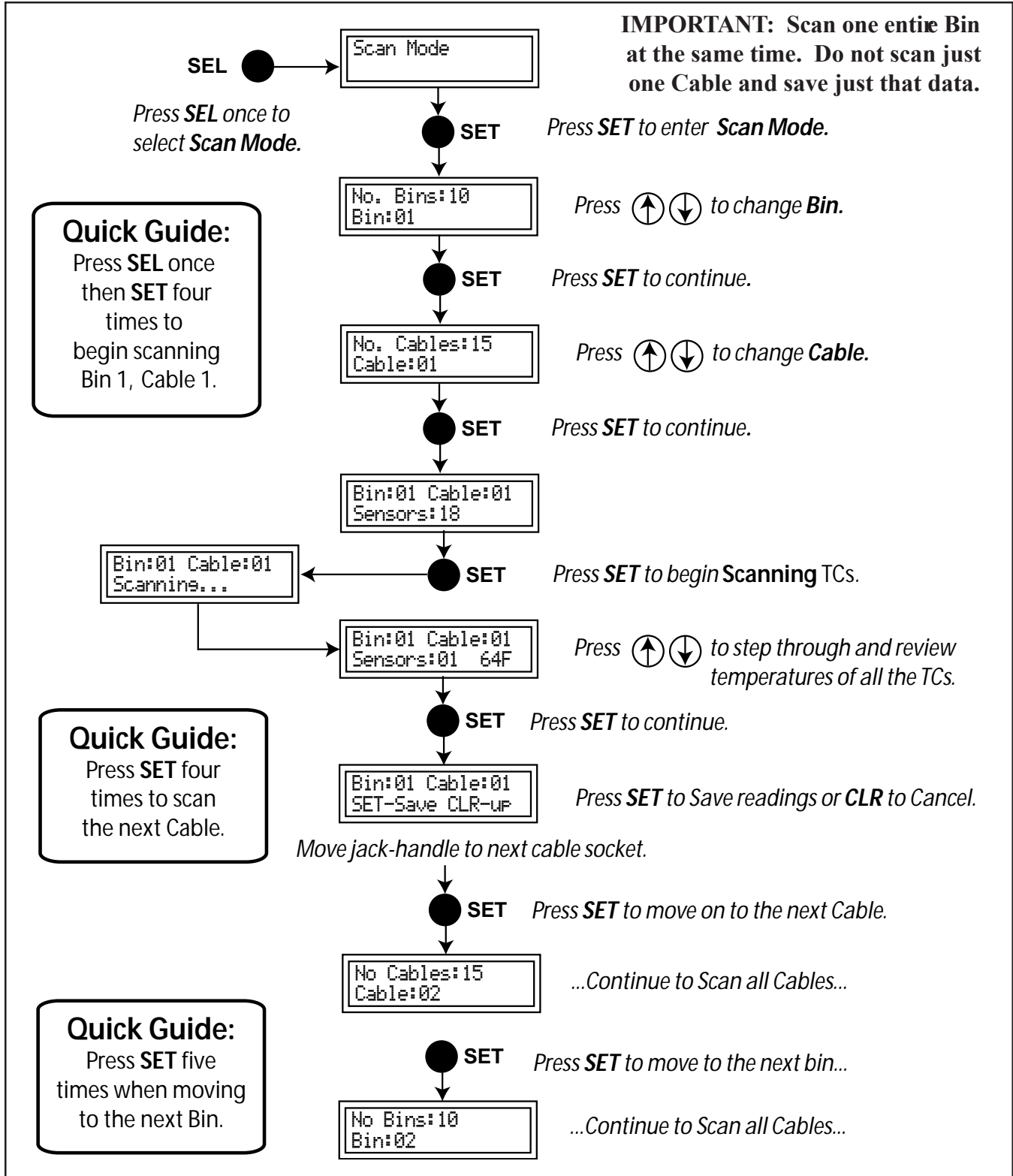


SCAN MODE

The DTL will scan a temperature cables, save the readings for printing or manually viewing.

IMPORTANT: Allow the DTL to acclimate to the CRS box location temperature for 15-30 minutes before recording temperatures.

IMPORTANT: Scan one entire Bin at the same time. Do not scan just one Cable and save just that data.

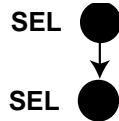


PRINT DATA

Printing temperature reading. *

The DTL has an integrated Serial (COM) port for downloading the last 4 readings to a PC. You can use the optional DTL DataTrack software or download to Windows Hyperterminal.

Press **SEL** twice to select the **Print Data** menu.



Print Data



Press **SET** to enter **Print Data** mode.

Print Data
SET-Print



Press **SET** to begin printing.

Print Data
Printine...

Quick Guide:

Press **SEL** twice then **SET** twice to Print.

* Downloading Data to a PC running the DTL DataTrack software.

The optional DTL DataTrack software enables the operator to download temperature readings to a PC then print, analyze and store the data.

Attach the DTL to the USB port on the PC then "Print" as described above. Use the included USB-Serial converter if your PC does not have a Serial (COM) port. **BE SURE TO INSTALL USB DRIVERS FOR YOUR CONVERTER BEFORE PLUGGING THE USB-SERIAL CONVERTER INTO YOUR PC.**

Attach all cables and converters before turning on the DTL

OHMS TEST

The DTL can be used to OHM test most temperature cables to determine the cable's integrity.

Plug the jack-handle into the first socket to test.

Press **SEL** three times to select **OHMS TEST**.





Ohms Test



Press **SET** to test first sensor.

Position:01
Ohms:10

Press   to test the next sensor.

Quick Guide:

Press **SEL** three times to begin testing.

Move jack-handle to next cable socket and repeat the process for the rest of the sensors.

NOTE: An open TC will display 500 ohms.
(Display range is 10-510 Ohms)

SETUP MENU

Configure SET BINS last, after completing Title, Scale, Delay, and Clock.

SET TITLE: Enter your Company name which appears as the title on the DTL display and on the printouts.

Quick Guide:
Press SEL four times then SET once to enter SETUP mode.

Press **SET** to continue.

Press \uparrow \downarrow to enter each letter
Press **SET** to move to the next letter.

SET SCALE: Select the temperature units of measurement, °F or °C.

Press **SET** to continue.

Press \uparrow \downarrow to select the temperature units.

SET DELAY: Set the scan delay for cable reading.

Leave at the factory default setting of 1.0 second for maximum benefit.

Press \uparrow \downarrow to select Scan Delay.

SET CLOCK: Set the internal clock of the DTL.

Press \uparrow \downarrow to set the time.
Press **SET** to move to the next character.

