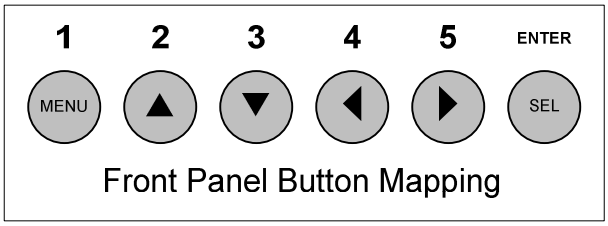
TANKSCAN 2 USER INTERFACE MAP

Button Behavior

The front panel interface on the ATEK TankScan product consists of a 16x2 character LCD and six pushbuttons.

The buttons are mapped as follows:



Front Panel Button Mapping

The buttons are intended to behave in a consistent fashion throughout the user interface.

The up/down buttons are used to select a particular item in a menu. When editing the value of a field, they are used to increase/decrease the value, or cycle through the available options.

The left/right buttons are not used at the main level of the menu system, but are used in the tank status viewer to select a different probe. When editing certain types of fields, the buttons are used to move the cursor left/right.

The menu button is used primarily to “go back” one level in the menu, or abort the current operation.

The select/enter button is used to select an item to “drill down” in a menu, to select a field for editing, or when editing a field, to commit a change.

In one instance, the front panel buttons are used as a password entry field, and the keys take on slightly different meanings. The values 1-5 and enter are shown in the button mapping above.

Refer to the user interface map at the end of this document for a quick reference.

Menu Items

1. Status Display
   The status display cycles through several useful screens of information on a periodic basis. It is refreshed once per second, and cycles to a new screen every 5 seconds. All status screens display the current time on the top line. The first status screen displays the unit serial number on the second line.
   - ***1a.*** Next Report Time
     This screen shows the time at which the unit is scheduled to next report.
   - ***1b.*** Last Report Status
     This screen shows the status of the last report attempt (OK or FAIL), and the time at which it was attempted.
   - ***1c.*** Controller Temperature
     This screen shows the current temperature of the controller unit.
   - ***1d.*** Reporting Started
     This screen is shown when the scheduled report time has been reached, or an alarm or other condition has caused reporting. It indicates that the unit is currently attempting to contact the server.
   - ***1e.*** Reporting Active
     This indicates that an active and successful reporting session is ongoing.
2. System Configuration
   This option leads to a selection of menu items which will configure a few system-wide options.
   - ***2a.*** Password Entry
     A simple password field is required to change these settings. By default, the password is 5-4-3-2-1-enter. This is a hardcoded password in the unit firmware.
   - ***2b.*** Billing Day
     This setting changes the day of the month that is considered the billing day, used for scheduling reporting.
   - ***2c.*** Measure Units
     This setting configures whether the measurement units are metric or imperial.
   - ***2d.*** Radio Mode
     This changes the controller radio mode between “old” mode (compatible with old probes only) or “new” mode (compatible with new probes only).
3. IP Configuration
   This option leads to a selection of menu items which allow configuration of the Ethernet networking interface. These settings are only relevant when the Ethernet uplink mode is selected.
   - ***3a.*** DHCP
     This setting configures whether the unit will attempt to acquire its IP settings automatically using DHCP, or whether they will be configured statically. Note that a reboot of the controller is required when this change is made.
   - ***3b.*** Static IP Address
     When in static IP mode, this is where the unit’s IP address is set.
   - ***3c.*** Static Network Mask
     When in static IP mode, this is where the unit’s network mask is set.
   - ***3d.*** Static Gateway

When in static IP mode, this is where the unit's default gateway is set.

3e. Static Primary DNS
When in static IP mode, this is where the primary DNS server is set.

3f. Static Secondary DNS
When in static IP mode, this is where the secondary DNS server is set.

4. Uplink Configuration

This option leads to a selection of menu items which allow configuration of the uplink connection.

4a. Uplink Mode
This setting allows choosing between the modem, USB and Ethernet modes of uplink connection.

4b. Minimum Time Between Calls
This setting controls the minimum allowable time between calls. This allows throttling the time between calls so that it does not dial in too often. Units are in minutes.

4c. Maximum Time Between Calls
This setting controls the maximum allowed time between calls. This ensures the unit reports at least as often as this setting. Units are in minutes.

4d. Repeat Alarm Call Time
??

4e. Maximum Tries to Call
This setting controls the maximum number of attempts that the controller will make at a given reporting time to try to contact the server.

4f. Begin Call Hour
This setting controls the start of a window in which the controller is allowed to connect to a server for reporting.

4g. End Call Hour
This setting controls the end of a window in which the controller is allowed to connect to a server for reporting.

4h. Power Alarm
This setting controls whether the controller will report immediately after restoration of power after an outage.

4i. Dial Phone Number
This setting is used to set the primary phone number that will be used for dialing. This is only relevant in "Telephone Line" uplink mode.

4j. Dial Prefix
This setting is used to control the prefix needed for dialing out, often "9" or "9W". This is only relevant in "Telephone Line" uplink mode.

4k. Dial Suffix
This setting is used to control any necessary suffix for dialing out. This is only relevant in "Telephone Line" uplink mode.

4l. Dial Mode
This setting is used to control whether the modem will dial using tone or pulse dialing when it dials. This is only relevant in "Telephone Line" uplink mode.

5. Tank Status

This option leads to a browser that allows monitoring of various fields for each of the tank probes that have communicated with the controller.

5a. Probe Status
This shows the status of the probe as of the last report. Possible statuses are: OK, MIRFAILU, BATTREPLACE,LOW BATT

5b. Probe Level
This shows the level of the tank as of the last report.

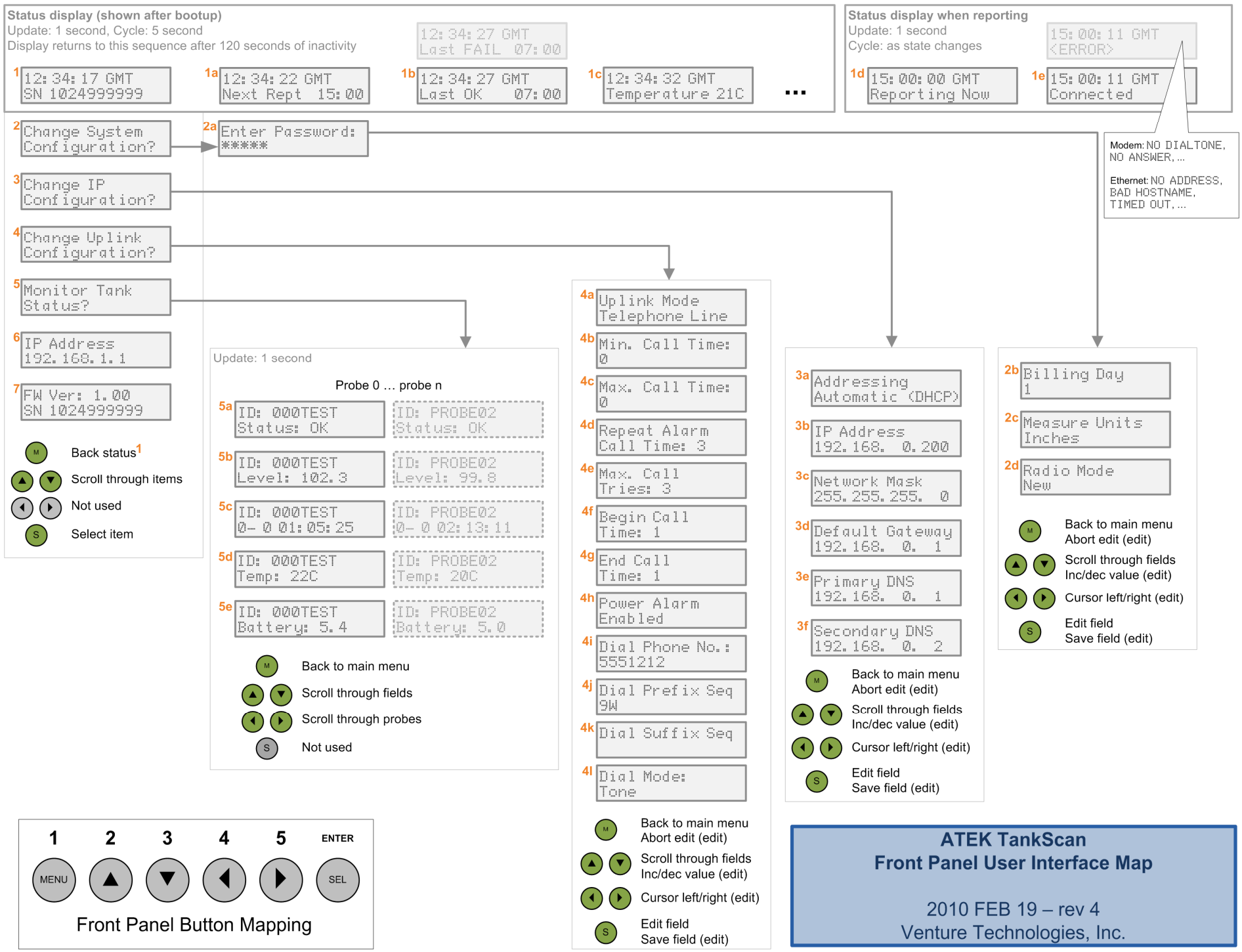
5c. Last Probe Report
This shows the date and time of the last probe report.

5d. Probe Temperature
This shows the temperature of the probe as of the last report.

5e. Probe Battery Level
This shows the battery level of the probe as of the last report, in volts.

6. IP Address Display
This shows the current IP address of the unit, or [Acquiring Address] if it is in DHCP mode and still attempting to retrieve an address from the server.

7. Version and Serial Number
This shows the unit firmware version and its serial number.


Status display (shown after bootup)
Update: 1 second, Cycle: 5 second
Display returns to this sequence after 120 seconds of inactivity
12:34:27 GMT
Last FAIL 07:00
1
12:34:17 GMT
SN 1024999999
1a
12:34:22 GMT
Next Rept 15:00
1b
12:34:27 GMT
Last OK 07:00
1c
12:34:32 GMT
Temperature 21C
...
Status display when reporting
Update: 1 second
Cycle: as state changes
15:00:11 GMT
<ERROR>
1d
15:00:00 GMT
Reporting Now
1e
15:00:11 GMT
Connected
Modem: NO DIALTONE, NO ANSWER, ...
Ethernet: NO ADDRESS, BAD HOSTNAME, TIMED OUT, ...
2
Change System Configuration?
2a
Enter Password:
*****
3
Change IP Configuration?
4
Change Uplink Configuration?
5
Monitor Tank Status?
6
IP Address
192.168.1.1
7
FW Ver: 1.00
SN 1024999999
Back status1
Scroll through items
Not used
Select item
Update: 1 second
Probe 0 ... probe n
5a
ID: 000TEST
Status: OK
ID: PROBE02
Status: OK
5b
ID: 000TEST
Level: 102.3
ID: PROBE02
Level: 99.8
5c
ID: 000TEST
0- 0 01:05:25
ID: PROBE02
0- 0 02:13:11
5d
ID: 000TEST
Temp: 22C
ID: PROBE02
Temp: 20C
5e
ID: 000TEST
Battery: 5.4
ID: PROBE02
Battery: 5.0
Back to main menu
Scroll through fields
Scroll through probes
Not used
4a
Uplink Mode
Telephone Line
4b
Min. Call Time:
0
4c
Max. Call Time:
0
4d
Repeat Alarm
Call Time: 3
4e
Max. Call
Tries: 3
4f
Begin Call
Time: 1
4g
End Call
Time: 1
4h
Power Alarm
Enabled
4i
Dial Phone No.:
5551212
4j
Dial Prefix Seq
9W
4k
Dial Suffix Seq
4l
Dial Mode:
Tone
Back to main menu
Abort edit (edit)
Scroll through fields
Inc/dec value (edit)
Cursor left/right (edit)
Edit field
Save field (edit)
3a
Addressing
Automatic (DHCP)
3b
IP Address
192.168. 0.200
3c
Network Mask
255.255.255. 0
3d
Default Gateway
192.168. 0. 1
3e
Primary DNS
192.168. 0. 1
3f
Secondary DNS
192.168. 0. 2
Back to main menu
Abort edit (edit)
Scroll through fields
Inc/dec value (edit)
Cursor left/right (edit)
Edit field
Save field (edit)
2b
Billing Day
1
2c
Measure Units
Inches
2d
Radio Mode
New
Back to main menu
Abort edit (edit)
Scroll through fields
Inc/dec value (edit)
Cursor left/right (edit)
Edit field
Save field (edit)
1 2 3 4 5 ENTER
MENU
SEL
Front Panel Button Mapping
ATEK TankScan
Front Panel User Interface Map
2010 FEB 19 – rev 4
Venture Technologies, Inc.