

8620 Driver Entry Terminal

Field interface device for data entry and process management at facility control points



Highlights

- Designed for security, asset protection, and process control applications in tank farms, terminals, or refineries.
- Interfaces with third-party devices such as electronic presets, PLCs, and I/O devices.
- User friendly interface (Microsoft Windows® Based) provides on-screen step-by-step instructions for your specific business processes
- FIPS-201 compliant biometric card reader* supports multiple card technologies – allowing seamless transition to the latest iCLASS Smart Cards. Provides configurable audible and visual feedback to the user.
- FIPS-201 compliant high resolution fingerprint scanner*
- Supports TWIC data requirements
- Suitable for installation and use in hazardous areas – FM approved
- Suitable for harsh environments – NEMA 4
- Robust construction is highly resistant to hard use, abuse and vandalism
- AC or DC operated

*Optional Component

Applications

The 8620 Driver Entry Terminal (DET) is a field interface device designed for data entry and process management at facility control points, such as;

- Entry and exit gates
- Load racks
- BOL request stations
- Weight scale stations
- Preload stations

It features multiple interface components, such as a display, card reader, and fingerprint scanner that can be used to enter and record pertinent information about the operator or operation.

The 8620 DET interfaces to FuelsManager® Oil and Gas Terminal Automation Edition software. It captures data and provides user prompts or notifications based on the desired configuration. For example, it may capture driver ID for access control, truck ID for equipment safety, or provide notifications to drivers, such as product availability in a given load rack.

Once authorization of the current process is received from FuelsManager the 8620 DET sends I/O Commands to connected devices, such as Gates, Presets or PLCs.

Example Operations

Entry and Exit Gates

The 8620 DET can be used to control access to a facility using card readers, fingerprint scanners, or ID entry via the keypad. It communicates with FuelsManager® Oil and Gas Terminal Automation Edition software to verify ID data and then automatically open/close entry and exit gates. It can be installed for driver or pedestrian ease of use. When used for ID verification at a BOL station it is able to automatically initiate printing of the desired BOL.

Preload Station

When used as a preload station the 8620 DET can streamline terminal loading operations by reducing time spent at the load rack. A driver may enter load information and verify load data, such as product availability, compartments, allocations, and customer information before entering the load rack.

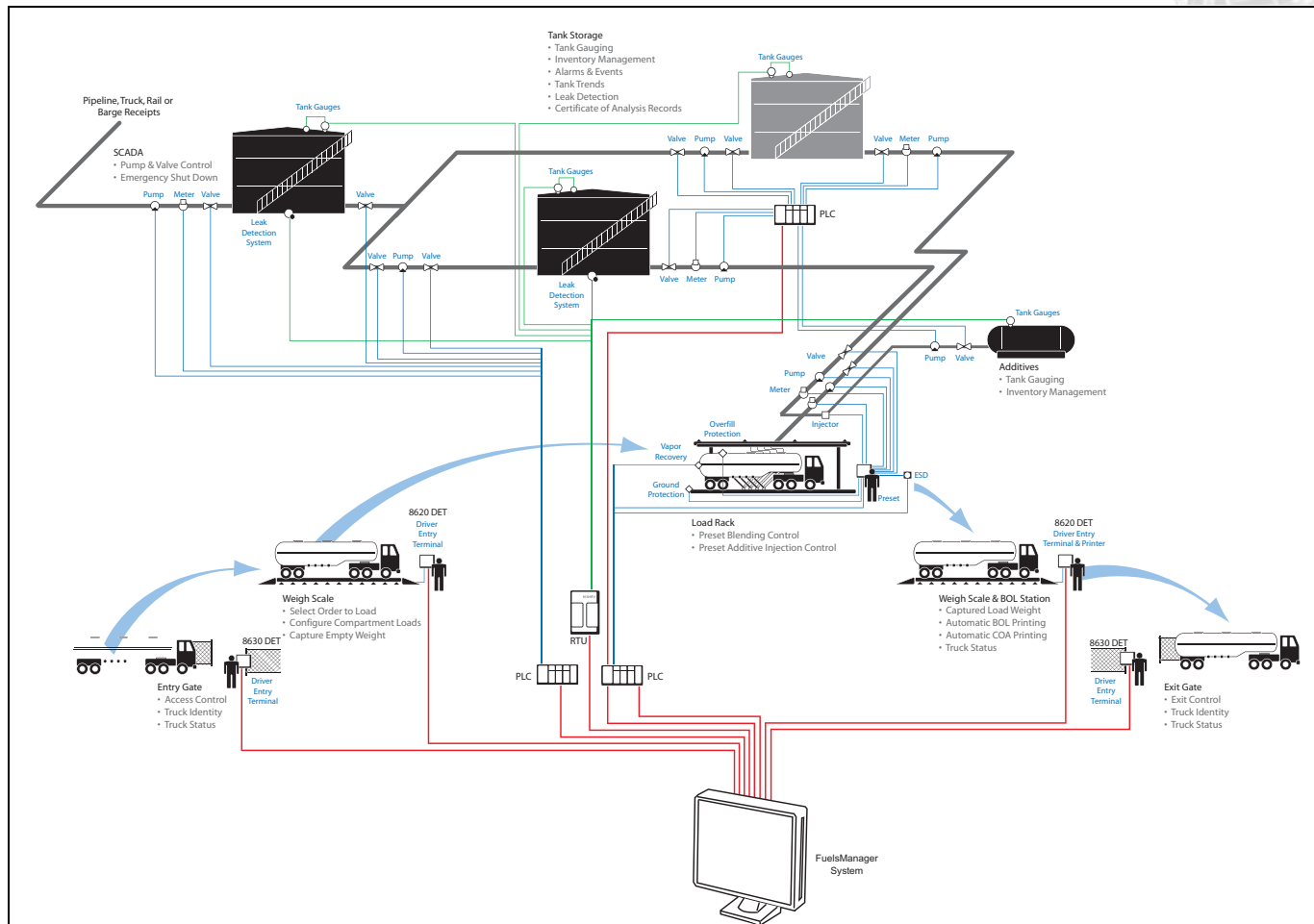
FuelsManager is able to provide notifications to the driver via the 8620 DET, such as “No Mid-grade Available on Bay 4”. Once the load data is verified by FuelsManager, the driver is authorized to proceed to the Load Rack and load via the preset.

Loading Bay

The 8620 DET receives driver command prompts and notifications from FuelsManager. The driver follows the on-screen prompts to configure the desired load information. Once complete, the driver is then authorized to load using the Preset Controller. The combination of FuelsManager and the 8620 DET at the load rack provides a terminal operator with a wide range of options for controlling and verifying load configuration, driver notifications, and blend recipes.

Weigh Scale

Similar to a preload station, the 8620 can be integrated with weigh scale operations. A driver follows on-screen prompts to capture weights and load information before and after loading.



Example terminal operations diagram

Technical Specifications

Data Transmission

Communication Ports	Ethernet (2) and/or serial (4)
Communication Types	Com 1, Com 2, Com 4: RS-232 Com 2: RS-485/422 or RS-232
I/O	Supports up to four General Purpose I/O via standard I/O modules.

Environmental

Operating Temperature	-40 °F to +158 °F (-40 °C to +70 °C)
Humidity	5 to 95% (non-condensing)

Power Supply

Operating Voltage	100 – 240 VAC 50/60 Hz 24 – 48 VDC
Power Consumption DC	1A @ 24VDC
Power Consumption AC	175mA @ 110VAC

Enclosure

Display	High contrast color TFT LCD
Keyboard	Engraved keys resist wear and provide operational life of over 4 million cycles per key
Enclosure Type	NEMA 4 with fingerprint scanner NEMA 4x without fingerprint scanner
Material	Stainless steel (1/16") (1.5875 mm)
Mounting	Wall mounted
Weight	30 lbs (13.6 Kg)

Certifications and Approvals

FM Approval (cFMus)
- Class I, Division 2 Groups C and D, T4
- Class I, Zone 2, T4

Optional Fingerprint Scanner

High Resolution	508 d.p.i 256 x 360 pixels 8 bits grayscale
Large Scan Area	12.8 mm x 12 mm (0.5" x 0.5")
Reliable	Solid 1:1 verification and 1:N identification

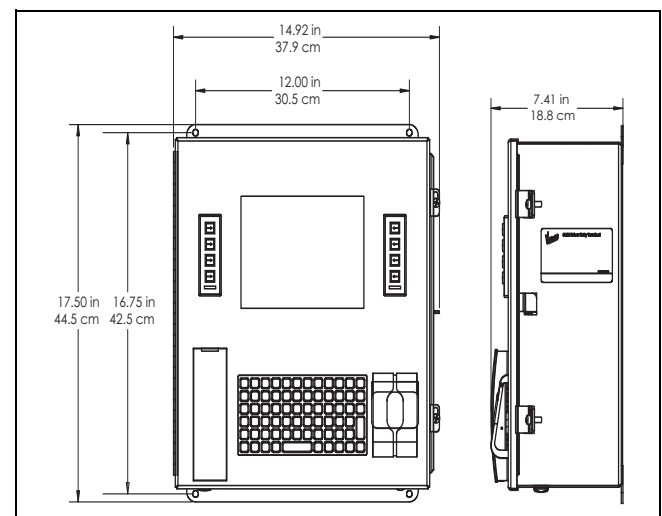
Optional Proximity Card Reader

Encryption	64-bit authentication
Card-Reader Matching	Unique, non-interchangeable
Audio/Visual	- Audio sounder provides various tone sequences to signify access granted, access denied, power up, and diagnostics. - A high-intensity light bar provides a clear visual status indication in red, green or amber, even in bright sunlight.
Internal Security	Internal switch notifies user/system of a tamper/vandal attempt
Read Range	1" to 4" (25 mm to 100 mm) depends on card technology used
Card Compatibility	125 kHz Proximity - HID or Indala proximity cards, keyfobs, and tags - AWID Credentials 13.56 MHz contactless smart cards - ISO 15693 – read only; 2k bit (256 Byte), 16k bit (2k Byte) and 32k bit (4k Byte); serial number - ISO 14443A – read only; MIFARE and DESFire® (serial number) - ISO 14443B – read only; 2k bit (256 Byte) and 16k bit (2k Byte) - US Government PIV · FeliCa IDm
Data Standards	FIPS-201 supports TWIC requirement

Accessories

- AC-DC 24V 5A DIN rail power supply (part # 400061639)

Dimensional Drawing



Order Codes

Approvals			
FM			Factory Mutual Approval (cFMus) Class I, Division 2 Groups C & D, T4, NEMA 4x Class I, Zone 2, T4
Power Input/Supply			
1			24 - 48 VDC
2			110 - 240 VAC
Enclosure Heater			
A			None
Digital I/O			
0			Additional Options Not Used
1			Single Dry Contact Output
2			Single DC Output
9			Custom Configuration
Card Reader			
A			None
B			FIPS Compliant Smart Card Reader
Finger Print Scanner			
0			Additional Options Not Used
1			FIPS Compliant USB Fingerprint Scanner
N8620-			Complete Product Designation

Note! The 8620 DET is only compatible with FuelsManager® Oil and Gas Terminal Automation Edition software.

www.varec.com

5834 Peachtree Corners East • Peachtree Corners, GA 30092
Tel: +1 (770) 447-9202 • Toll Free: +1 (866) 698-2732 • Fax: +1 (770) 662-8939



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