

Fuel Authorization Methods

Flexible Security for Every Operation



At **SCI**, we know every fleet and fueling environment is different. That's why **FuelShield®** and **FuelShield® Lite** support multiple authorization methods that can work **individually or in pairs**, giving you the flexibility to choose the right balance of **security, convenience, and cost**.



Because Every Drop Counts

www.sciww.com

How Authorization Works

Every fueling transaction begins with an **authorization check**.

1



The driver or vehicle presents an ID (card, PIN, key, etc.).

2



The **FuelShield®** controller validates access.

3



If approved, the pump activates and the transaction is recorded in real time through **FuelB4®** software.

This ensures only approved vehicles and drivers can dispense fuel, eliminating fraud, misuse, and errors.

Available Authorization Methods



Keypad / PIN Code

- Driver enters a secure code before fueling.
- Can be paired with vehicle ID for dual verification.

Best for: *Fleets needing quick and simple driver authentication*



I-Button / Dallas Key

- Small electronic key assigned to each driver or vehicle.
- Touch to the reader to unlock the pump.

Best for: *Rugged environments, easy physical token.*



RFID Vehicle or Driver Tag

- Passive tag automatically detected when near the nozzle or reader.
- Enables hands-free authorization.

Best for: *Large fleets with many vehicles, reduces manual input errors.*

Available Authorization Methods



Magnetic Stripe / Swipe Card

- Works with fleet cards, corporate cards, or custom badges.

Best for: *Retail environments and mixed-fleet operations.*



QR Code / Mobile Authorization

- Drivers scan or present a unique QR code via phone or badge.
- Quick setup, no physical token needed.

Best for: *Flexible or contractor-based operations.*



NFC / Virtual Wallets

- Authorize fueling with contactless mobile payments or smart cards.

Best for: *Retail stations or modern fleets that already use mobile wallets.*

Available Authorization Methods



Telematics / Secure Token

(FuelShield only)

- Fuel access is tied to vehicle GPS & telematics data.
- Generates a one-time secure code when the vehicle enters a geofenced fueling area.

Best for: *High-security fleets or large distribution networks.*



Payment Cards (WEX, EFS, Debit/Credit)

- For retail fueling, supports standard payment cards at the pump.

Best for: *Resale environments and mixed-user fueling*

Pairing Combinations



Full flexibility

Combine methods for multi-layered security.

E.g., RFID + PIN I-Button + Telematics
















Essential methods

Keypad I-Button RFID

Perfect for smaller fleets needing reliable control at lower cost.



Comparison Chart

| Authorization Method |  FUEL SHIELD® |  FUEL SHIELD® Lite |
|--------------------------------|--|---|
| Keypad / PIN |  |  |
| I-Button / Dallas Key |  |  |
| RFID (Vehicle/Driver Tags) |  |  |
| Magnetic Stripe / Swipe Card |  | - |
| QR Code |  | - |
| NFC / Virtual Wallets |  | - |
| Telematics / Secure Token |  | - |
| Payment Cards (WEX, EFS, etc.) |  | - |

Whether you need essential control or advanced multi-layer security, SCI has the right authorization method for your fleet. Pair them with **FuelShield®** or **FuelShield® Lite** and take full control of your fuel.

Products by 

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Book a free consultation today

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