

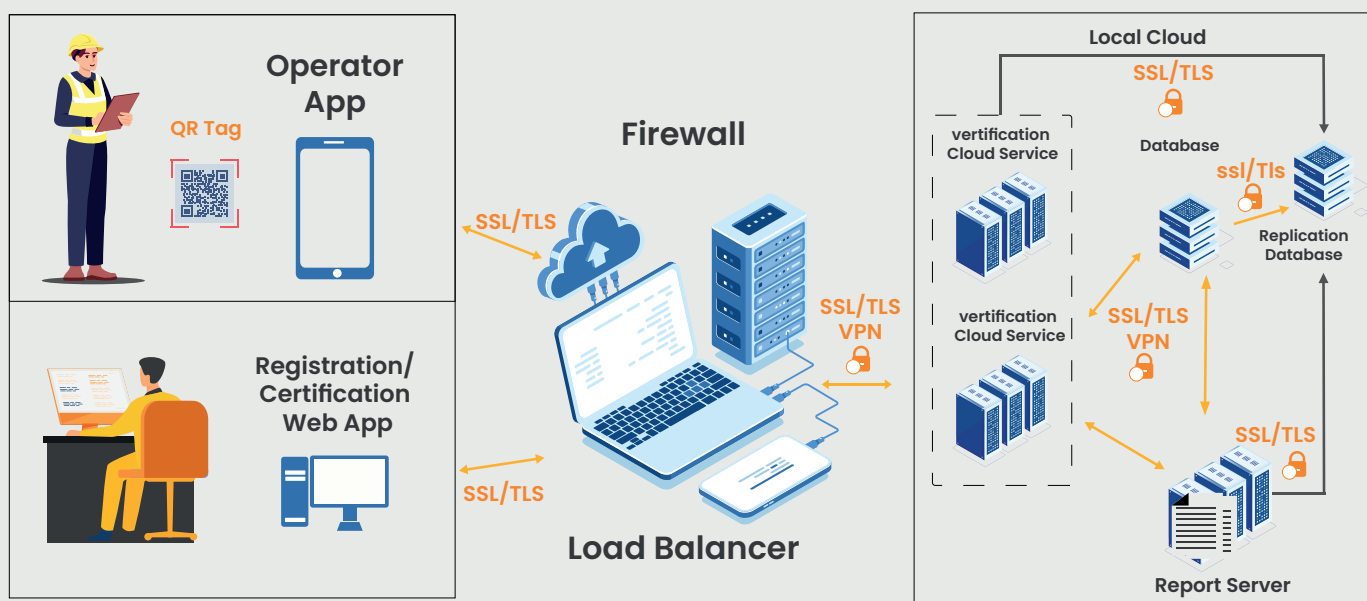
Cng Automation System Datasheet

Product Description

Our CNG ElectraZ system is an IOT solution meant for the natural gas vehicles and its charging stations. The system is an implementation to build an integration cylinder and vehicle verification system along with gas charging control system solution for gas station. This system will protect the gas stations and the vehicles from catastrophic accidents and will ensure the safety of the whole system. The system automates the verification process without any human intervention using a secured database.

Key Features

- Operator scans Cylinder QR code using a smart Android based mobile application.
- Once operator sends QR data it receives a successful or failure to verify with the car numbers. In case of success, the app sends an authorization message to the controller entered by the operator to allow charging the car.
- The microcontroller receives a verification to fuel and opens nozzle to start fueling.
- Interfaces with existing CNG dispensers, readily implemented on all types of NGV's
- Certified for use in hazardous locations.
- Reliable & secure means of identifying certified & inspected vehicles .
- Encrypted data to prevent fraud .
- Secure central database assures traceability of all vehicle systems .



CNG CONTROL SYSTEM

Cng Automation System Datasheet



Hardware Specification

- Power supply input: 220VAC – 50/60Hz – 1.8Ampere .
- Power supply is protected by ABB circuit breaker .
- Power supply output: 24V – 2.5A (MeanWell power supply) .
- Output control channels: 8-4-2 channels, each channel controls single dispenser.
- Protection input signals as feedback to ensure the output signal implementation.
- Any type of dispensers can be controlled once we have its input/output data .
- Casing type: Explosion-proof or ordinary casing based on the installation area.
- Wireless router range: 25m (can be customized upon each case).

Software Specification

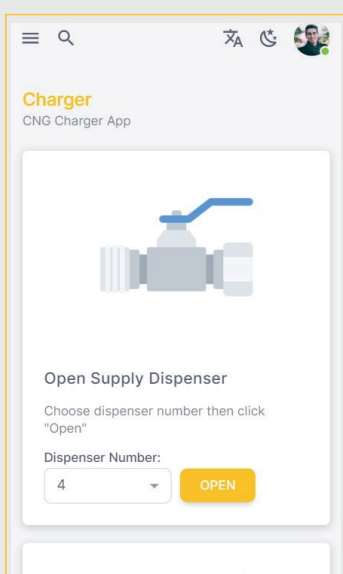
Admin Panel

- Add new car by adding its QR code, its plate number, and its last maintenance date.
- Monitor the cars status, like its last maintenance date, the notes written by the supervisor, and its data.

Search (Ctrl+/)							
Filters						Vehicle Date 10/19/2022	
Vehicle Status							
Actions							
	PLATE	LAST MAINTENANCE D.	MAINTENANCE PERIOD	REMAINING DAYS	QR	CHARGER NOTES	ACTIONS
<input type="checkbox"/>	456-٤٤٦	13/10/2022	12	6	asgevvaseifraeviss	test test test	
<input type="checkbox"/>	123-٤٤٦	11/10/2022	30	22	A2L45YQaoBzCMxy	-	
<input type="checkbox"/>	345-٤٤٦	10/10/2022	13	4	assdfaafaeafadms	Hey you	
<input type="checkbox"/>	111-٤٤٦	11/10/2022	12	4	duhnsdjaerabnyryn	-	
<input type="checkbox"/>	222-٤٤٦	05/07/2022	12		dfrgmgsperabnyryn	-	

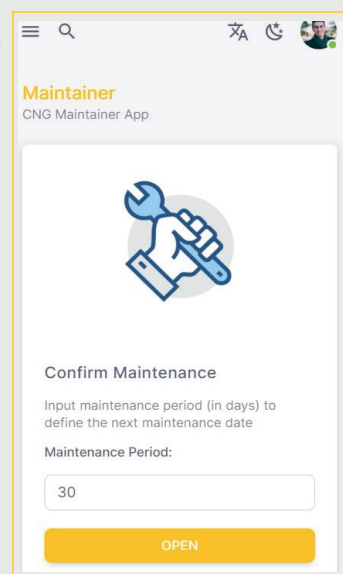
Charging APP

- Control charging the car by inspecting its QR code .
- Charging operator can add notes to be viewed by the admin and the maintenance operator.



Maintenance app

- Check and match the car number with the QR code on the gas cylinder .
- Updates the maintenance date upon resolving the notes provided .



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