



Electronic fuel dispensers TATSUNO serves  
in dispensing of compressed natural gas (CNG)  
on filling stations for road vehicles.

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**TATSUNO**  
In Innovation, In Reliable Services

# TOWER/CNG SMART/CNG



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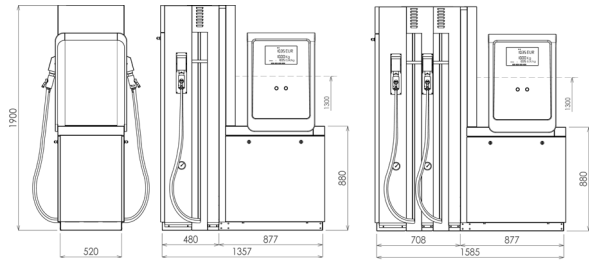
ELECTRONIC CNG DISPENSERS

TOWER/CNG  
SMART/CNG

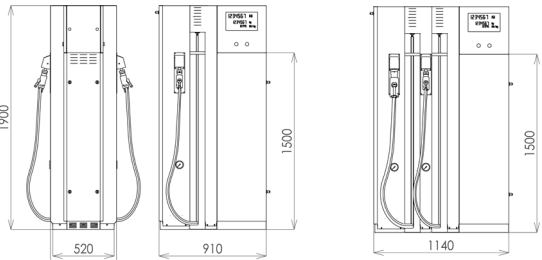
TATSUNO fuel dispensers  
in the TOWER/CNG series serves  
in dispensing of compressed  
natural gas (CNG) on filling  
stations for road vehicles.



The TOWER/CNG dispensers are one-sided or double-sided with one to four hoses. The CNG dispensers are equipped by the high-quality pressure system, Coriolis mass flow meter and by the reliable electronic calculator TBELTM. The CNG dispensers are operated both in the manual mode (i.e., off-line), and in the automatic mode, where the fuel dispenser is linked with the kiosk control system and the data concerning volume, sum and price are transmitted to POS. The CNG dispenser can be uniquely combined with other fuel grades, including LPG, gasoline and diesel. TATSUNO's CNG dispensers are designed to last longer even in the harshest of conditions. The robust dispenser is only dispatched to your site after rigorous testing at TATSUNO's laboratory. The CNG dispenser comes with housing made of powder-coated steel providing long lasting life in all environments.



TOWER/CNG



SMART/CNG

SPECIFICATION

ELECTRONICS

- Memory protected for security in the event of a power failure
- Interfaces – PDE, IFSF-LON, PUMALAN
- LED Backlight LCD (amount, mass, unit price)
- Power supply 1 phase 230V AC, 50 Hz, + 10 %
- Reliable TBELTM mass calculator
- Start / Stop button

MECHANICAL CHARACTERISTICS

- Filling hose: 3/8" (cars), 1/2" (buses)
- Filling nozzles compatible with receptacles according to ISO 14469-1, 2 (NGV 1) and ISO 14469-3 (NGV 2)
- Foundation frame
- Hose management – internal with free-hanging hoses for easy use
- Housing – powder-coated steel
- Nozzles – large selection of fuelling nozzles for attended or unattended use
- Simple adjustment from single filling nozzle to two nozzles (single filling point to two)
- Twin hose line with re-connectable breakaways

OPTIONS

- 1 to 3 inlet lines
- Emergency Shut Down (ESD) system
- Emergency signal
- Emergency stop button
- Housing – stainless steel

HYDRAULICS

- Coriolis mass flow meters
- External and internal sequencing, electronically controlled
- High safety thanks to automatic leak detection
- Maximum flow rate 30 kg / min NGV1 or 70 kg / min NGV2
- Maximum working pressure 30 MPa (300 bar)
- Optimized temperature compensation
- Solenoid valves
- Testing pressure 43 MPa (430 bars)
- Time savings during refuelling due to faster switching between individual sections

TECHNICAL CHARACTERISTICS

- Accuracy  $\pm 1.0$  % with minimum dispensed mass 2 kg
- Ambient temperature range -25 °C to +55 °C (-40 °C to +55 °C special version)
- Approvals: ATEX, TÜV
- Conformity with OIML R139 – 1, 2
- Country specific weights and measures test upon request
- Dispensers designed to fully comply with safety, environmental and W&M European standards
- EC marking
- Factory-tested
- Power supply 1 phase 230V AC, 50 Hz,  $\pm 10$  %
- Filling duration under 3 min (standard vehicle)

TECHNICAL & ENVIRONMENTAL SPECIFICATION

|                       |                                                             |                                           |
|-----------------------|-------------------------------------------------------------|-------------------------------------------|
| Flow rates:           | Standard speed flow rate:<br>30 kg / min                    | High speed flow rate (/H):<br>70 kg / min |
| Accuracy:             | $\pm 1.0$ % with minimum dispensed mass 2 kg                |                                           |
| Power supply:         | 230V +10 % -15 %, 50 Hz, max. 300 VA                        |                                           |
| Ambient temperature:  | -25 °C to +55 °C (-40 °C to +55 °C with additional heating) |                                           |
| Temperature of fluid: | -20 °C to + 50 °C                                           |                                           |
| Ambient temperature:  | -25 °C to +55 °C (-40 °C to +55 °C special version)         |                                           |
| Temperature of gas:   | -40 °C to +70 °C                                            |                                           |
| Relative humidity:    | 5 % to 95 %                                                 |                                           |

SINGLE-SIDED DISPENSERS

| Product | Type                 | Hoses/Performance                  |
|---------|----------------------|------------------------------------|
| 1       | BMP40x1.OWL(R)/CNG   | 1 × 30 kg / min                    |
| 1       | BMP40x1.OWL(R)/H/CNG | 1 × 70 kg / min                    |
| 1       | BMP40x2.OWL(R)/H/CNG | 1 × 30 kg / min<br>1 × 70 kg / min |

DOUBLE-SIDED DISPENSERS

| Product | Type                | Hoses/Performance                  |
|---------|---------------------|------------------------------------|
| 1       | BMP40x2.OWD/CNG     | 2 × 30 kg / min                    |
| 1       | BMP40x2.OWD/H/CNG   | 1 × 30 kg / min<br>1 × 70 kg / min |
| 1       | BMP40x2.OWD/H/H/CNG | 2 × 70 kg / min                    |
| 1       | BMP40x4.OWD/H/CNG   | 2 × 30 kg / min<br>2 × 70 kg / min |

x – 1 to 3 inlet lines