

SUNNY-GL



TATSUNO

In Innovation, In Reliable Services

Introducing from the country of high-technology.

SUNNY-GL

Keep Quality
Keep Security and Safety
Keep Innovation and Improvement



Japan Quality

Precise, convenient, and safe.
“User first” is the top priority in Japanese manufacturing.

SUNNY-GL is the dispenser with highest accuracy, quality, durability,
and reliability that always provides utmost satisfaction for all.

New Challenge Starts from SUNNY-GL

SUNNY-GL is the essential dispenser for service stations. Benefits to both service station owners and drivers. User-friendly and safe. Best partner that provides greatest fulfillment for all.

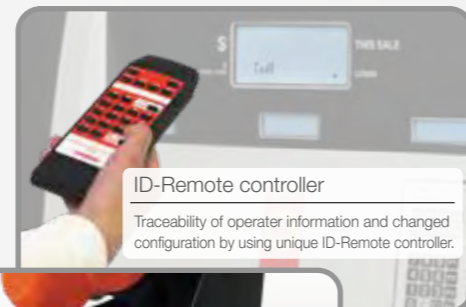
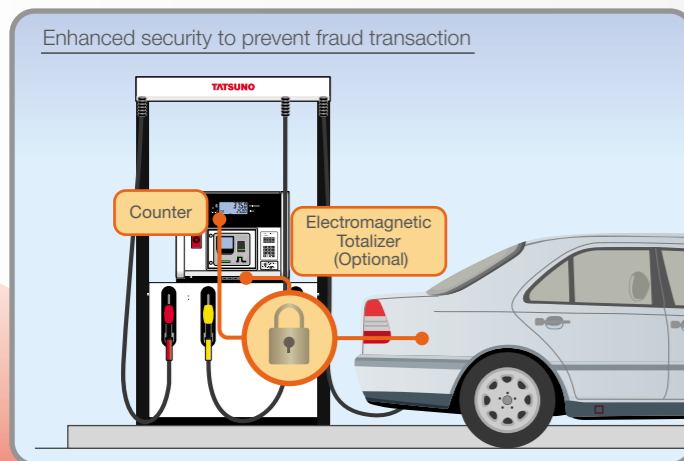
Wide range of Product Lineup

Product lineup meets various requirements of sites and customers. The best model with the best function. Package is adjustable: wide or narrow body, suction, remote, flow rate, etc.

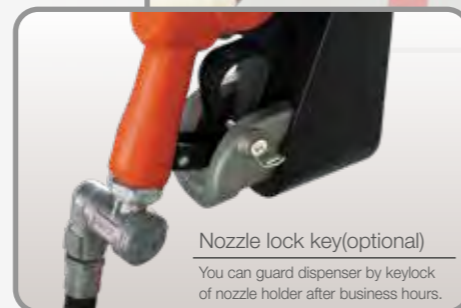


Security Function

Prevents illegal data-changing or skimming by encryption technology for data communication between circuit boards. Equips with disconnection detecting function for electromagnetic totalizer. Protect your operation from cheatings in advance by preventive function.



ID-Remote controller
Traceability of operator information and changed configuration by using unique ID-Remote controller.



Nozzle lock key(optional)
You can guard dispenser by keylock of nozzle holder after business hours.

Components with Best Cost Performance

Our main components, such as pumping unit and meter, are praised for their great technology and performance with highest quality and accuracy. The structures are designed to make maintenance work more efficiently to reduce the work cost.

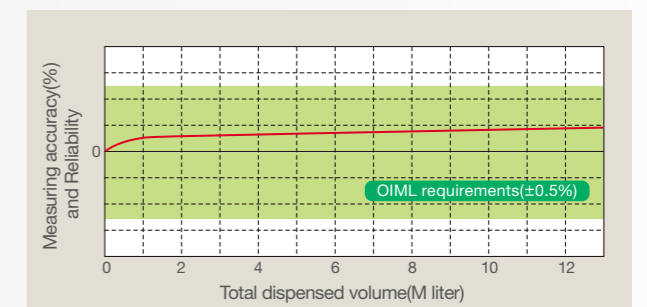


New Model of Die-Cast Pump

New pumping unit uses techniques based on years of experience. It is a suction type made from die casting. Its air separator function and flow rate supervision control function keeps instrumental error to bare minimum.

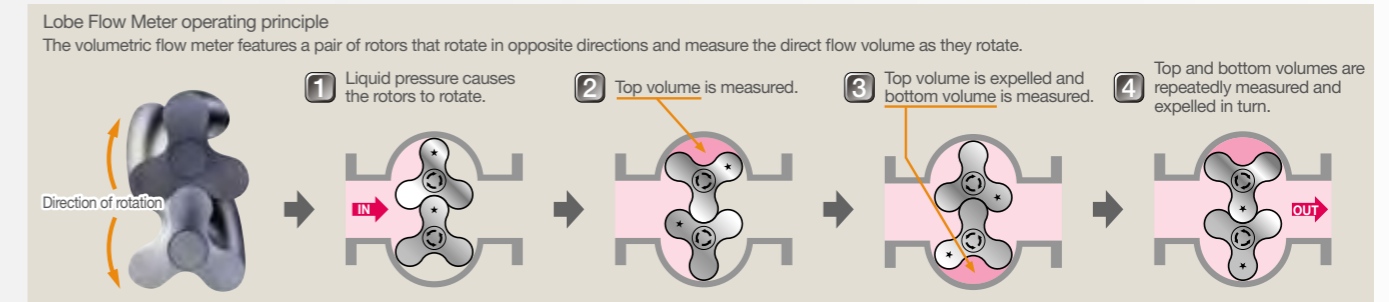
Piston Meter

This precise and reliable meter provides safe refueling environment without deterioration in performance for a long period of time. New magnetic pulser with impenetrable structure improves reliability against leakage.



Lobe Flow Meter

Durability greatly improved by advanced and accurate mass measurement contactless helical rotor. This mechanism makes the innovative design and compact body of flow meter. Today this flow meter is widely used as "ultimate flow meter."



Various functions are available.



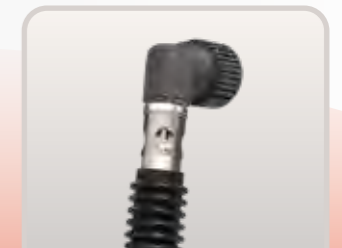
Membrane Panel
Visualization of leakage from pumping unit



Air Detector
Detect air and stop refueling automatically



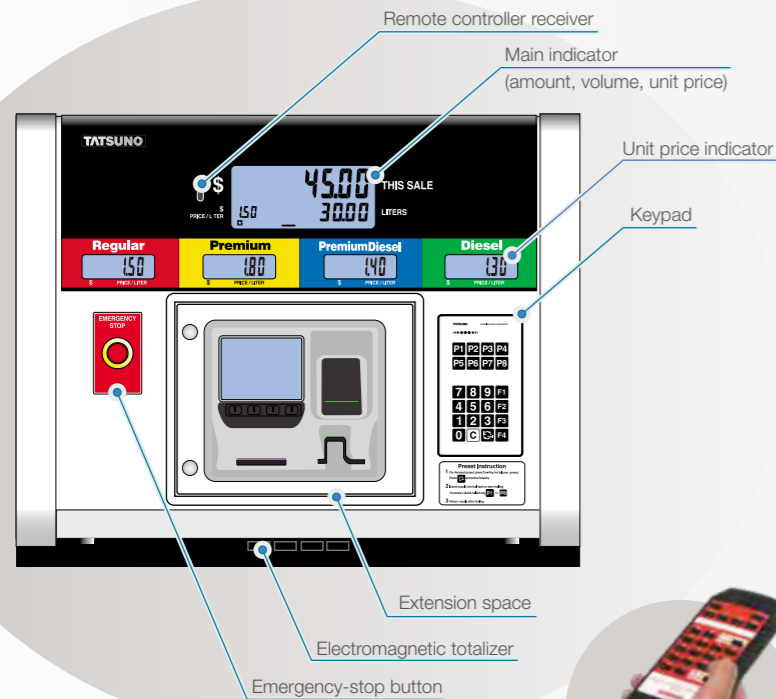
Conductive Terminal
Easy to check electrical conductivity



Sight Glass
Easy to confirm the status of refueling

Extensible Counter Area

Counter Area is designed based on user's actual motion during refueling. You can upgrade functions such as OPT, printer, keypad, RFID operator authentication, etc.



OPT
Its compact size fits the limited space well. Great versatility in reading various cards.



Basic configuration can be done by remote controller. Keypad is not needed, if OPT is installed.

Multifunctional LCD Counter

All necessary information are displayed on one screen. The LCD counter is bright with high visibility and is enhanced in durability (with LED backlight).



Status icon
 ★ Dispenser status ⓘ Information
 ▲ Warning ⓘ Maintenance call

- 8-Digit counter can be used for any currency. (7 digits for measurement unit, 6 digit for unit price)
- When not used, backlight turns off and the dispenser goes into idle state to save electric power.
- Maximum 10 records of recent refueling transaction data can be indicated.
- Counter can give notice of replacement timing of consumable parts.

Easy Flow Rate Control

Minor adjustment of flow rate can be done with just one button. Best flow rate can be selected for vehicles such as motorbike and truck to ensure safe and comfortable refueling.

Smooth Handling

Achieves simple and comfortable refueling. No stress. All parts of hanging hardware, including elbow, breakaway, hose, swivel and nozzle are smoothly interlocked. All actions of refueling can be done easily.



- Safety breakaway coupling prevents damage to dispenser in unpredicted situation.
- Double swivel helps to handle the hose freely.
- Nozzle holder enables easy operation of nozzle.



Reliable Nozzle and Nozzle Holder

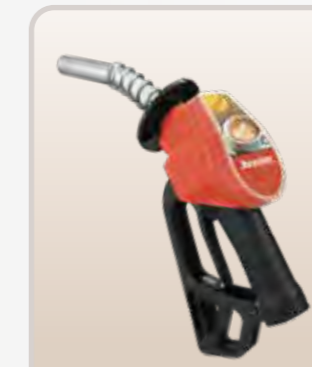
Compact and space-saving. This contactless type nozzle holder fits the nozzle perfectly and achieves high durability. There are convenient accessories such as nozzle talker for advertisement, cover for diesel to prevent misfueling, etc.



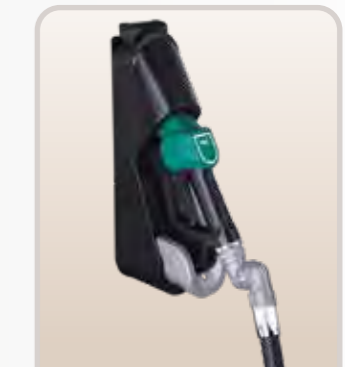
Nozzle holder and Ultra nozzle



Contactless nozzle switch



Nozzle talker

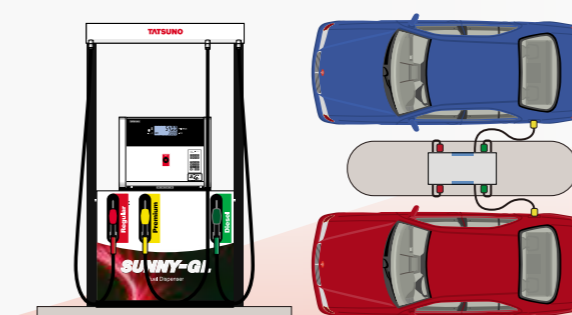


Nozzle holder cover

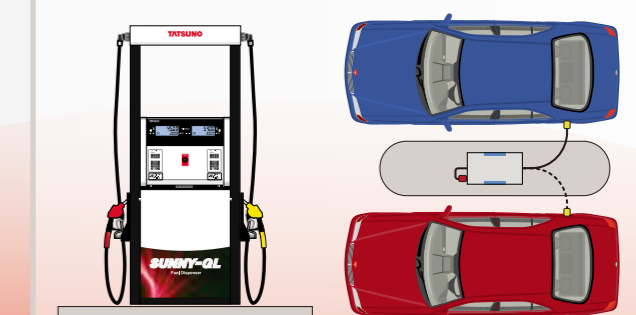
By using Ultra Nozzle, refueling completes in short time with small foaming. Also, auto stop function works even in 2L/min. Safe refueling is achieved.

Free Layout and Operation

Front Nozzle Type
With a hose for same product at both sides, refueling operation can be done by lanes. The driver can choose from different products freely. Makes refueling environment open and wider.



Side Nozzle Type
With side nozzle, refueling can be done smoothly by islands. Effective operation can be managed by economical solution.

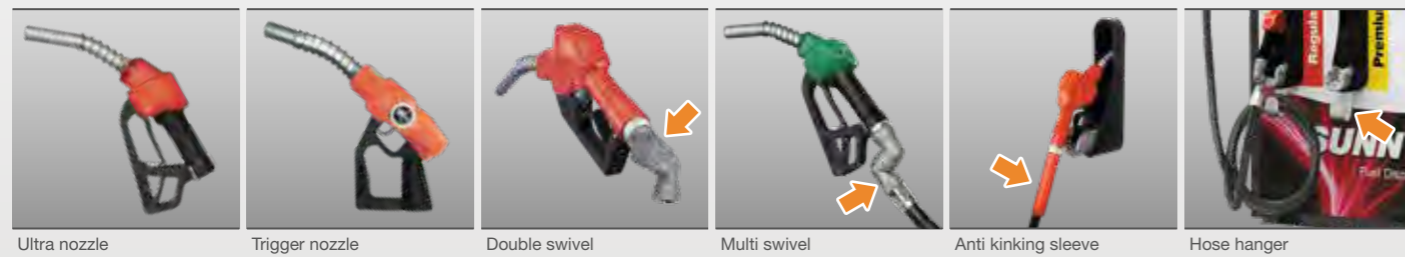


List of Functions/Models

● Main feature ▲ Optional feature — Unavailable

Function	Wide Body, Front Nozzle Model							
	4882	3662	3664	2442	2444	3331	3332	
Appearance								
Fueling system diagram								
Model	Suction	WDB 4882	WDB 3662	WDB 3664	WDB 2442	WDB 2444	WDB 3331	WDB 3332
	Remote	WSB 4882	WSB 3662	WSB 3664	WSB 2442	WSB 2444	WSB 3331	WSB 3332
POS preset		▲	▲	▲	▲	▲	▲	▲
Keypad(preset) with display		▲ ^{*1}	▲	▲	▲	▲	▲	▲
Keypad(preset) without display		▲	▲	▲	▲	▲	▲	▲
Interface	RS-485	▲	▲	▲	▲	▲	▲	▲
	IFSF	▲	▲	▲	▲	▲	▲	▲
Hose	12ft(Hard core)	●	●	●	●	●	●	●
Hose Hanger		▲	▲	▲	▲	▲	▲	▲
Color Anti kinking sleeve		▲	▲	▲	▲	▲	▲	▲
Nozzle	Auto-stop nozzle	●	●	●	●	●	●	●
	Just-stop(prepay) nozzle	▲	▲	▲	▲	▲	▲	▲
	Trigger	▲	▲	▲	▲	▲	▲	▲
	Ultra nozzle	▲	▲	▲	▲	▲	▲	▲
	High speed nozzle 70L/min	▲	▲	▲	▲	▲	▲	▲
	80L/min	▲	▲	▲	▲	▲	▲	▲
	Splash guard	▲	▲	▲	▲	▲	▲	▲
	Oil guard	▲	▲	▲	▲	▲	▲	▲
	Nozzle talker ^{*2}	▲	▲	▲	▲	▲	▲	▲
Swivel	Single	●	●	●	●	●	●	●
	Double	▲	▲	▲	▲	▲	▲	▲
	Multi ^{*2}	▲	▲	▲	▲	▲	▲	▲
Unit price indicator		▲	▲	▲	▲	▲	▲	▲
Vapor recovery		▲	▲	▲	▲	▲	▲	▲
Safety breakaway coupling	Single poppet	●	●	●	●	●	●	●
	Double poppet	▲	▲	▲	▲	▲	▲	▲
Safety breakaway coupling cover		▲	▲	▲	▲	▲	▲	▲
Electromagnetic totalizer		▲	▲	▲	▲	▲	▲	▲
Sight glass		▲	▲	▲	▲	▲	▲	▲
Alert of restoring nozzle (by key tone)		▲	▲	▲	▲	▲	▲	▲
Emergency-stop button		▲	▲	▲	▲	▲	▲	▲
Filling cap tray		▲	▲	▲	▲	▲	▲	▲
Static electricity discharge pad		▲	▲	▲	▲	▲	▲	▲
Clip for conductivity test		▲	▲	▲	▲	▲	▲	▲
Earthquake sensor		▲	▲	▲	▲	▲	▲	▲
Air detector sensor(for Suction model)		●	●	●	●	●	●	●
Membrane panel(for Suction model)		▲	▲	▲	▲	▲	▲	▲
Flow control button	Motorbike mode	▲	▲	▲	▲	▲	▲	▲
	High-to-Standard mode	▲	▲	▲	▲	▲	▲	▲
OPT		▲	▲	▲	▲	▲	▲	▲
Built-in printer		▲	▲	▲	▲	▲	▲	▲
Nozzle holder with lock		▲	▲	▲	▲	▲	▲	▲
RFID		▲	▲	▲	▲	▲	▲	▲

*1: Combination of keypad with display and unit price indicator is not available.
*2: For Ultra Nozzle only.



Ultra nozzle Trigger nozzle Double swivel Multi swivel Anti kinking sleeve Hose hanger

● Main feature ▲ Optional feature — Unavailable

Function	Narrow Body, Front Nozzle Model				
	2442	2444	2222	1222	1111
Appearance					
Fueling system diagram					
Model	WDA 2442	WDA 2444	WDA 2222	WDA 1222	WDA 1111
	WSA 2442	WSA 2444	WSA 2222	WSA 1222	WSA 1111
POS preset	▲	▲	▲	▲	▲
Keypad(preset) with display	▲	▲	▲	▲	▲
Keypad(preset) without display	▲	▲	▲	▲	▲
Interface	RS-485	▲	▲	▲	▲
	IFSF	▲	▲	▲	▲
Hose	12ft(Hard core)	●	●	●	●
Hose Hanger		▲	▲	▲	▲
Color Anti kinking sleeve		▲	▲	▲	▲
Nozzle	Auto-stop nozzle	●	●	●	●
	Just-stop(prepay) nozzle	▲	▲	▲	▲
	Trigger	▲	▲	▲	▲
	Ultra nozzle	▲	▲	▲	▲
	High speed nozzle 70L/min	▲	▲	▲	▲
	80L/min	▲	▲	▲	▲
	Splash guard	▲	▲	▲	▲
	Oil guard	▲	▲	▲	▲
	Nozzle talker ^{*2}	▲	▲	▲	▲
Swivel	Single	●	●	●	●
	Double	▲	▲	▲	▲
	Multi ^{*2}	▲	▲	▲	▲
Unit price indicator		▲	▲	▲	▲
Vapor recovery		▲	▲	▲	▲
Safety breakaway coupling	Single poppet	●	●	●	●
	Double poppet	▲	▲	▲	▲
Safety breakaway coupling cover		▲	▲	▲	▲
Electromagnetic totalizer		▲	▲	▲	▲
Sight glass		▲	▲	▲	▲
Alert of restoring nozzle (by key tone)		▲	▲	▲	▲
Emergency-stop button		▲	▲	▲	▲
Filling cap tray		▲	▲	▲	▲
Static electricity discharge pad		▲	▲	▲	▲
Clip for conductivity test		▲	▲	▲	▲
Earthquake sensor		▲	▲	▲	▲
Air detector sensor(for Suction model)		●	●	●	●
Membrane panel(for Suction model)		▲	▲	▲	▲
Flow control button	Motorbike mode	▲	▲	▲	▲
	High-to-Standard mode	▲	▲	▲	▲
OPT		▲	▲	▲	▲
Built-in printer		▲	▲	▲	▲
Nozzle holder with lock		▲	▲	▲	▲
RFID		▲	▲	▲	▲

Function	Narrow Body, Side Nozzle Model		
	2222	1222	1111
Appearance			
Fueling system diagram			
Model	WDA 2222-S	WDA 1222-S	WDA 1111-S
	WSA 2222-S	WSA 1222-S	WSA 1111-S
POS preset	▲	▲	▲
Keypad(preset) with display	▲	▲	▲
Keypad(preset) without display	▲	▲	▲
Interface	RS-485	▲	▲
	IFSF	▲	▲
Hose	12ft(Hard core)	●	●
Hose Hanger		▲	▲
Color Anti kinking sleeve		▲	▲
Nozzle	Auto-stop nozzle	●	●
	Just-stop(prepay) nozzle	▲	▲
	Trigger	▲	▲
	Ultra nozzle	▲	▲
	High speed nozzle 70L/min	▲	▲
	80L/min	▲	▲
	Splash guard	▲	▲
	Oil guard	▲	▲
	Nozzle talker ^{*2}	▲	▲
Swivel	Single	●	●
	Double	▲	▲
	Multi ^{*2}	▲	▲
Unit price indicator		▲	▲
Vapor recovery		▲	▲
Safety breakaway coupling	Single poppet	●	●
	Double poppet	▲	▲
Safety breakaway coupling cover		▲	▲
Electromagnetic totalizer		▲	▲
Sight glass		▲	▲
Alert of restoring nozzle (by key tone)		▲	▲
Emergency-stop button		▲	▲
Filling cap tray		▲	▲
Static electricity discharge pad		▲	▲
Clip for conductivity test		▲	▲
Earthquake sensor		▲	▲
Air detector sensor(for Suction model)		●	●
Membrane panel(for Suction model)		▲	▲
Flow control button	Motorbike mode	▲	▲
	High-to-Standard mode	▲	▲
OPT		▲	▲
Built-in printer		▲	▲
Nozzle holder with lock		▲	▲
RFID		▲	▲

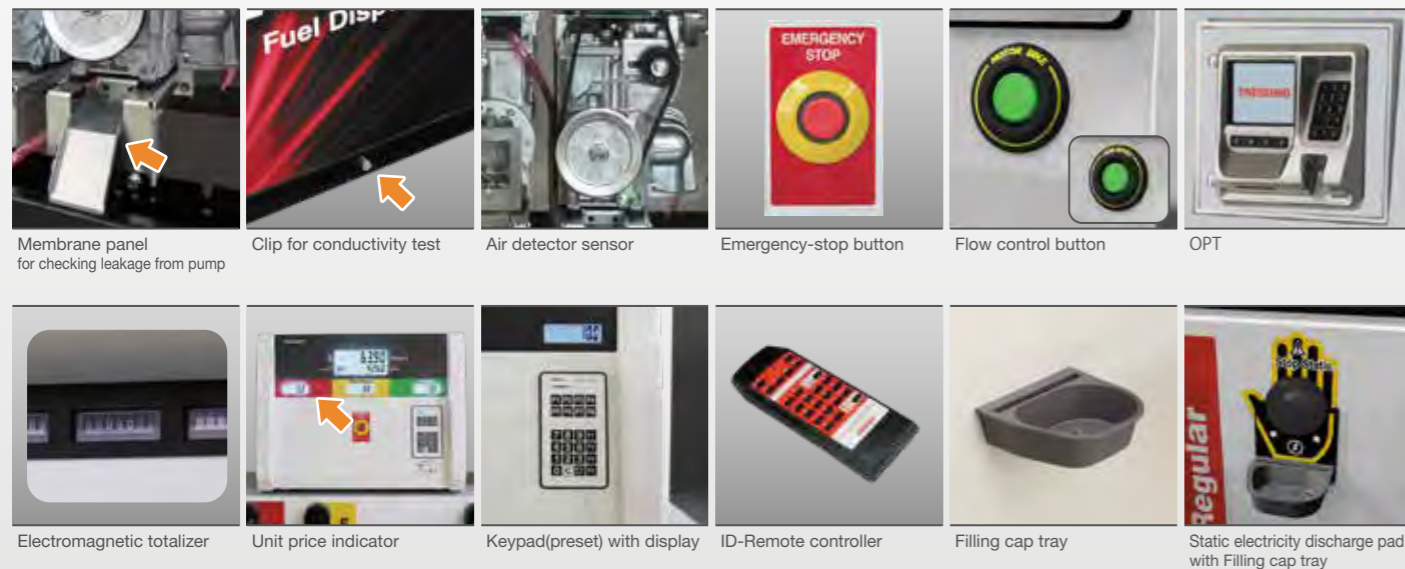


Splash guard Oil guard Nozzle talker Sight glass Safety breakaway coupling Safety breakaway coupling cover

List of Functions/Models

● Main feature ▲ Optional feature — Unavailable

Function	Ultra-high Speed Model							
	4222	4222	4222	4222	2222	2222	2111	2111
Appearance								
Fueling system diagram								
Model	Suction WDF 4222-S Remote WSF 4222-S	WDF 4222 WSF 4222	Remote type only WSC 4222-S	Remote type only WSC 4222	WDC 2222-S WSC 2222-S	WDC 2222 WSC 2222	WDC 2111-S WSC 2111-S	WDC 2111 WSC 2111
POS preset	▲	▲	▲	▲	▲	▲	▲	▲
Keypad(preset) with display	▲	▲	▲	▲	▲	▲	▲	▲
Keypad(preset) without display	▲	▲	▲	▲	▲	▲	▲	▲
Interface	RS-485 IFSF	▲	▲	▲	▲	▲	▲	▲
Hose	12ft(Soft)	●	●	●	●	●	●	●
Hose Hanger	▲	▲	▲	▲	▲	▲	▲	▲
Nozzle	Ultra-high speed Auto-stop nozzle High speed nozzle 70L/min 80L/min	●	●	●	●	●	●	●
Swivel	Single	●	●	●	●	●	●	●
Safety breakaway coupling	Single poppet Double poppet	●	●	●	●	●	●	●
Safety breakaway coupling cover	▲	▲	▲	▲	▲	▲	▲	▲
Electromagnetic totalizer	▲	▲	▲	▲	▲	▲	▲	▲
Alert of restoring nozzle (by key tone)	▲	▲	▲	▲	▲	▲	▲	▲
Emergency-stop button	▲	▲	▲	▲	▲	▲	▲	▲
Static electricity discharge pad	▲	▲	▲	▲	▲	▲	▲	▲
Clip for conductivity test	▲	▲	▲	▲	▲	▲	▲	▲
Earthquake sensor	▲	▲	▲	▲	▲	▲	▲	▲
Air detector sensor(for Suction model)	●	●	●	●	●	●	●	●
Membrane panel(for Suction model)	▲	▲	▲	▲	▲	▲	▲	▲
Flow control button(High-to-Standard mode)	▲	▲	▲	▲	▲	▲	▲	▲
OPT	—	▲	—	▲	—	▲	—	▲
Built-in printer	▲	▲	—	▲	—	▲	—	▲
Nozzle holder with lock	▲	▲	▲	▲	▲	▲	▲	▲
RFID	▲	▲	▲	▲	▲	▲	▲	▲



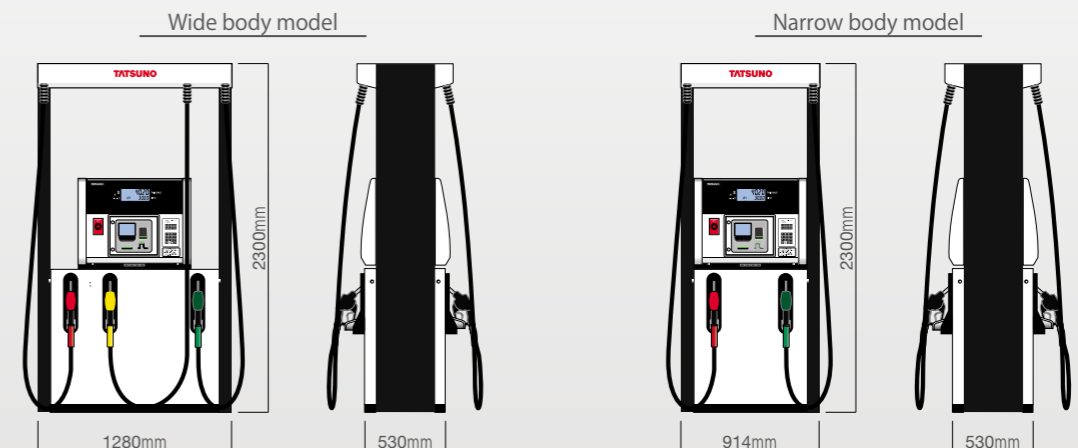
Main Specifications

	Standard Speed (Gasoline / Diesel)	High Speed (Diesel)	Ultra-high Speed (Diesel)
Delivery Speed	Suction Model 40 L/min. (Simultaneous fuelling: 35 L/min)	70 or 80 L/min. (Simultaneous fuelling: 40 L/min)	140 L/min. (Simultaneous fuelling: 100 L/min)
	Remote Model	Depends on the on-site submersible pump capacity	
Measuring Accuracy	±0.25%		±0.5%
Flow Meter	Standard: 4-piston type positive displacement meter with electronic calibration system Optional: Mechanical calibration adjuster		32mm Lobe meter
Suction Pumping Unit	Internal silent gear pump with air separator, by-pass valve, suction strainer and check valve		
Suction Head (Suction Model)	4m (Gasoline Column)		
Motor (Suction Model)	Standard: 1-phase induction motor, explosion-proof, 220~240 VAC±10%, 50/60Hz 750W Optional: 3-phase induction motor, explosion-proof, 380~415 VAC±10%, 50/60Hz 750W		
	Type	Micro-computer type electronic counter (LCD)	
	Character Color	Black characters on a blue field with bright LED back light	
	Price:	8 digits [0.01 ~ 999,999.99] / Readout: 35.0H mm	
	Volume:	7 digits [0.01 ~ 99,999.99] / Readout: 25.4H mm	
	Unit Price:	6 digits [0.01 ~ 9,999.99] / Readout: 15.0H mm	
		※ Depending on POS registration, the display shows ' Price : 6 digits, Volume : 6 digits, Unit price : 4 digits '.	
	Electronic Totalizer	8+2 digits or 7+3 digits	
	Other Functions	Self-diagnosis, Over voltage protector, Battery back-up	
keypad	Totalizer	Electronic: 10 digits [99 999 999.99 Liters]	
	Daily Totalizer	Electronic: 10 digits [99 999 999.99 Liters]	
Electromagnetic Totalizer (Optional)	Mechanical: 7 digits [9 999 999 Liters]		
Reset Device	Automatic reset in Nozzle Hanger		
Nozzle	Standard: Tatsuno nozzle with colored scarf guard / Spout size : OD 21mm or OD 25mm Optional: Ultra nozzle, Trigger, High speed nozzle Compatible with other manufacturers		OD 32mm automatic stop nozzle
Swivel	Standard: Tatsuno single swivel Optional: Tatsuno double swivel, Tatsuno Multi swivel(work with Ultra nozzle) or Compatible with other manufacturers		
Hose	Standard: 3/4"×12 ft, Black, Oil resistant Optional: Color & length by request		1 ⁸ or 1-1/4 ⁸ ×12ft, Black, Oil resistant
Safety Breakaway Coupling	Standard: Tatsuno (Non-reusable) Optional: Compatible with other manufacturers		
Sight Glass	Optional: Tatsuno original type or Compatible with other manufacturers		Not available
Filter (Suction Model)	Optional: Paper filter Standard: Paper filter		
Filter (Remote Model)	Optional: Reusable metal strainer Standard: White with black base		
Housing color	Optional: Colors by request Standard: No POS interface		
POS Interface	Optional: RS-485, IFSF		
Pulser	Resolution 1mL/pulse		
Initial-setting Method	ID-Remote controller		
Flow Control Valve	Proportional valve		
Connection kit for underground piping (Optional)	Suction: Flexible tube, Flange, 1-1/2" threaded Remote: 1-1/2" threaded connection pipe for shear valve use		
Eathquake Sensor (Optional)	Effective against earthquakes with a seismic acceleration level of more than 100 GAL (5+ on the Richter Scale)		
Remote controller	Provided 1 pc per service station		

Note : The delivery speed of the pump may change due to the following conditions if it is used beyond Tatsuno's installation and operational instructions:

- 1) Size and length of hose
- 2) Size and type of nozzle/swivel
- 3) Type of oil product, suction conditions, and local piping conditions
- 4) With/without presets

Specifications are subject to change with or without prior notice.



Technology and performance that are highly acclaimed by the world.

All the main components including pumping units, meters,
and nozzles are designed and developed by our own.

We offer you the reliable “Japan Quality” dispenser.



TATSUNO CORPORATION

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