SUMMEL

Fuel Dispenser







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.

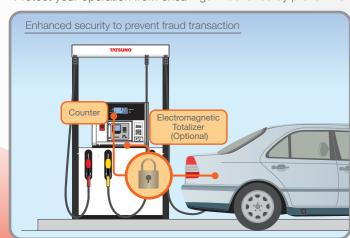




Security Function

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.





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.

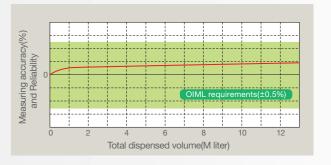


New Model of Die-Cast Pump

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.

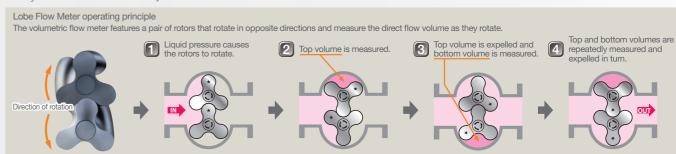


Lobe Flow Meter

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 optional parts to prevent leakage and air contamination.



Membrane Panel Visualization of leakage from pumping unit



Detect air and stop refueling automatically

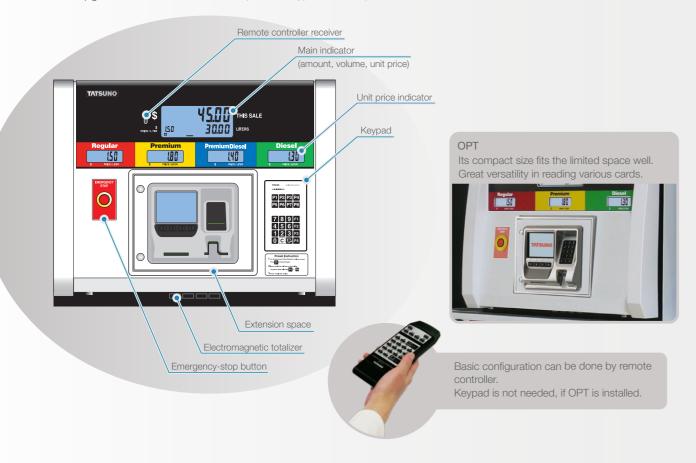


Easy to check electrical conductivity



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.



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).



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.



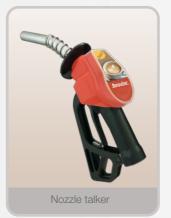
- Safety breakaway coupling prevents damage to dispenser in unpredicted situation.
- Double swivel helps to handle the hose freely.
- Nozzle holder enables easy operation of nozzle.

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.









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

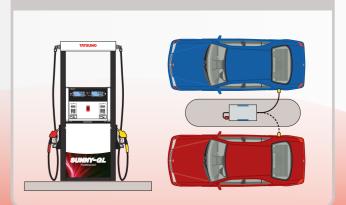
With a hose for same product at both sides, refueling operation can be done by lanes.

The driver can choose from different products freely. Makes refueling environment open and wider.



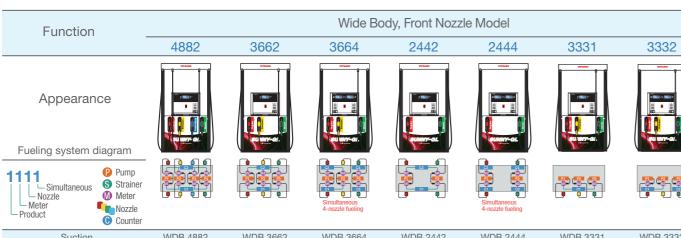
Side Nozzle Type

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



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List of Functions/Models



	Suction	WDB 4882	WDB 3662	WDB 3664	WDB 2442	WDB 2444	WDB 3331	WDB 3332
Model	Remote	WSB 4882	WSB 3662	WSB 3664	WSB 2442	WSB 2444	WSB 3331	WSB 3332
POS prese	et	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Keypad(preset) with display		▲ *1	<u> </u>					
	reset) without display	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_
2)1 (1-	RS-485	_	<u> </u>	_				
Interface	IFSF	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_
Hose	12ft(Hard core)	•	•	•	•	•	•	•
Hose Han		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	kinking sleeve	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	Auto-stop nozzle	•	•	•	•	•	•	•
	Just-stop(prepay) nozzle	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	Trigger				_	_	_	_
Nozzle	Ultra nozzle							
	Splash guard							
	Oil guard							
	Nozzle talker*2							_
	Single	•	•	•	•	•	•	•
Swivel	Double		<u> </u>		<u> </u>	<u> </u>		
SWIVCI	Multi*2							
Unit price								
Vapor reco								
vарот тесс	" Single poppet	•	•	•	•	•	•	•
Safety break	kaway coupling Double poppet	<u> </u>						
Cafatu braal	kaway coupling cover	<u> </u>						
	, , ,							
	gnetic totalizer			<u> </u>				
Sight glas								
	storing nozzle (by key tone)	_		<u> </u>		<u> </u>		
	y-stop button	_			<u> </u>	<u> </u>	<u> </u>	
Filling cap						<u> </u>	<u> </u>	
	tricity discharge pad	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Clip for conductivity test		<u> </u>		_	<u> </u>	<u> </u>	<u> </u>	
Earthquake sensor		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Air detector sensor(for Suction model)		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Membrane panel(for Suction model)		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_
$\begin{tabular}{ll} Flow control button & $\frac{$\rm Motorbike\ mode}{$\rm High-to\mbox{-}Standard\ mode} \\ \end{tabular}$		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_
			A	A	A	A	A	A
OPT		<u> </u>	A	_	<u> </u>		A	_
Built-in printer		<u> </u>	A	<u> </u>	<u> </u>	<u> </u>	A	<u> </u>
ID-Remote controller		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Nozzle hol	lder with lock	A	A	A	A	A	A	<u> </u>
RFID		<u> </u>	A	A	<u> </u>	<u> </u>	<u> </u>	<u> </u>

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





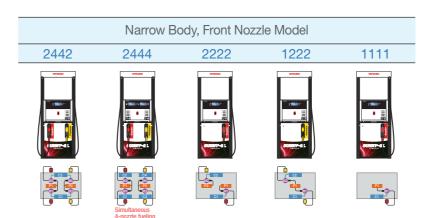


Double swivel

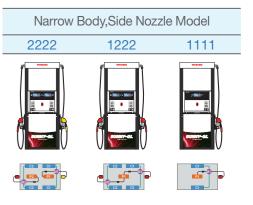








WDA 2442	WDA 2444	WDA 2222	WDA 1222	WDA 1111
WSA 2442	WSA 2444	WSA 2222	WSA 1222	WSA 1111
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	_		<u> </u>	



WDA 2222-S	WDA 1222-S	WDA 1111-S
WSA 2222-S	WSA 1222-S	WSA 1111-S
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A	A	A
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Splash guard









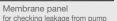


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List of Functions/Models

	Function				Ultra-high S	peed Model			
	Tanction	4222	4222	4222	4222	2222	2222	2111	2111
	Appearance							1	
L L	P Pump Simultaneous Nozzle ter Nozzle Nozzle Nozzle		2 P			Ultra-high speed	Ultra-high speed	G	
└─ Produ	© Counter	Ultra-high speed type	Ultra-high speed type	Ultra-high speed type	Ultra-high speed type	High speed type	High speed type	Ultra-high speed type	Ultra-high speed type
Model	Suction	WDF 4222-S	WDF 4222	Remote type only	Remote type only	WDC 2222-S	WDC 2222	WDC 2111-S	WDC 2111
	Remote	WSF 4222-S	WSF 4222	WSC 4222-S	WSC 4222	WSC 2222-S	WSC 2222	WSC 2111-S	WSC 2111
POS pre		A	A	A	<u> </u>	A	A	<u> </u>	A
	(preset) with display	_	_	_	<u> </u>	<u> </u>	_	<u> </u>	<u> </u>
Keypad	(preset) without display								
Interfac	e RS-485			_		<u> </u>			
	IFSF								
Hose	12ft(Soft)	•	•	•	•	•	•	•	•
Hose H						_			
	Ultra-high speed	•	•	•	•	•	•	•	•
Nozzle	Auto-stop nozzle								
	High speed nozzle 70L/mi 80L/mi		<u> </u>	<u> </u>		•	•		<u> </u>
Swivel	Single 80L/mi	<u>n</u>	•	•	•	•	•	•	•
Swivei			•	•	•	•	•	•	•
Safety bre	eakaway coupling Single poppet Double poppe								
Safety hre	eakaway coupling cover	<u> </u>							
	nagnetic totalizer								
	restoring nozzle (by key ton								
	ncy-stop button	<u> </u>							
	lectricity discharge pad			_	_		_	_	
	conductivity test	_	_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	ake sensor	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	ctor sensor(for Suction model)	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Membra	ane panel(for Suction model)) 🔺	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	ntrol button(High-to-Standard n		A	<u> </u>	<u> </u>	A	A	<u> </u>	A
OPT		_	A	_	<u> </u>	-	A	A	-
Built-in	printer	A	A	_	<u> </u>	_	A	<u> </u>	_
ID-Rem	ote controller	<u> </u>	<u> </u>	<u> </u>	A	<u> </u>	<u> </u>	A	A
Nozzle I	holder with lock	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
RFID		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	A



















Electromagnetic totalizer



Unit price indicator



Keypad(preset) with display ID-Remote controller







Static electricity discharge pad with Filling cap tray

Main Specifications

		Standard Speed (Gasoline / Diesel)	High Speed (Diesel)	Ultra-high Speed (Diesel)					
Delivery Sp	Suction Model	40 L/min. (Simultaneous fuelling: 35 L/min)	70 L/min. (Simultaneous fuelling: 40 L/min)	140 L/min. (Simultaneous fuelling: 100 L/min)					
Delivery Op	Remote Model	Depe	ends on the on-site submersible pump capaci	ty					
Measuring	Accuracy	±0	.25%	±0.5%					
Flow Meter		Standard: 4-piston type positive displacent	nent meter with electronic calibration system	32mm Lobe meter					
i iow wieter			Optional: Mechanical calibration adjuster						
Suction Pu	mping Unit	Internal silent gear pump with air separator, by-pass valve, suction strainer and check valve							
Suction He	ad (Suction Model)	4m (Gasoline Column)							
Motor (Suction Model)		Standard: 1-phase induction motor, explosion 560W for standard speed, 750	Standard: 1-phase induction motor, explosion-proof, 220~240 VAC±10%, 50/60Hz 560W for standard speed, 750W for high speed						
		Optional: 3-phase induction motor, explosion-proof, 380~415 VAC±10%, 50/60Hz 750W							
	Туре	Micro-computer type electronic counter ((LCD)						
	Character Colo	r Black characters on a blue field with bright	ht LED back light						
		Price: 8 digits [0.01 ~ 999,999.99]	/ Readout: 35.0H mm						
0	Disalan	Volume: 7 digits [0.01 ~ 99,999.99]	/ Readout: 25.4H mm						
Counter	Display	Unit Price: 6 digits [0.01 ~ 9,999.99]							
		** Depending on POS registration, the display shows ' Price : 6 digits, Volume : 6 digits, Unit price : 4 digits '.							
	Electronic Totalia	zer 8+2 digits or 7+3 digits							
	Other Functions	s Self-diagnosis, Over voltage protector, Ba	attery back-up						
keypad		Optional: Volume and amount can be pro	eset using a 16-key-sheet + 8 programmable	one-touch key buttons with click sound					
	Totalizer	Electronic: 10 digits [99 999 999.99 Liters]							
Totalizer	Daily Totalizer	Electronic: 10 digits [99 999 999.99 Lite	Electronic: 10 digits [99 999 999.99 Liters]						
Electromag	netic Totalizer (Optional)	Mechanical: 7 digits [9 999 999 Liters]							
Reset Devi	ce	Automatic reset in Nozzle Hanger							
		Standard: Tatsuno nozzle with colored scar	Standard: Tatsuno nozzle with colored scarf guard / Spout size : OD 21mm or OD 25mm						
Nozzle		Litra nozzla. Trigger High speed nozzla							
			Optional: Compatible with other manufacturers						
0		Standard: Tatsuno single swivel							
Swivel		Optional: Tatsuno double swivel, Tatsuno	o Multi swivel(work with Ultra nozzle) or Comp	patible with other manufacturers					
		Standard: 3/4"×12 ft, Black, Oil resistant							
Hose		Optional: Color & length by request	1 ⁸ or 1-1/4 ⁸ x 12 ft Black ()						
0.61 0		Standard: Tatsuno (Non-reusable)							
Safety Brea	akaway Coupling	Optional: Compatible with other manufacturers							
Sight Glass	3	Optional: Tatsuno original type or Compa	atible with other manufacturers	Not available					
Filter (Sucti	ion Model)	Optional: Paper filter							
E'II /D	. 1 . 1.4 1 . 1)	Standard: Paper filter							
Filter (Rem	ote Model)	Optional: Reusable metal strainer							
	L	Standard: White with black base							
Housing co	olor	Optional: Colors by request							
POS Interface		Standard: No POS interface							
		Optional: RS-485, IFSF							
Pulser		Resolution 1mL/pulse							
Initial-settir	ng Method	Keypad, Remote controller, ID-Remote co	ontroller						
Flow Contr	ol Valve	Proportional valve							
Connection kit for underground piping		Suction: Flexible tube, Flange, 1-1/2" three	eaded						
(Optional)	3 - -		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)							
Eathquake	Serisor (Optional)	Lifective against eartifuakes with a seisi	THE acceleration level of more than 100 GAL	or our thornton doubt /					

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.

Wide body model



Narrow body model

- 9 -- 10 - 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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