

Terufusion®

Syringe pump TE-SS700

Product Information Card



Technical Data

Product Specifications	
Type of device	Syringe pump
Classification	Class I and internally powered equipment, Type CF (according to IEC/EN 60601-1) Class IIb medical device (according to Council Directive 93/42/EEC)
Moisture protection	IP 24
EMC	IEC/EN 60601-1-2, IEC/EN 60601-2-24
Operating conditions	Ambient temperature: 5 - 40°C Relative humidity: 20 - 90%RH (non-condensing)
Size / Weight	For TE-SS700 without external communication (RS-232C): 381 mm (W)* ¹ x 120 mm (H)* ¹ x 112 mm (D)* ² , Approx. 2 kg For TE-SS702 with external communication (RS-232C): 381 mm (W)* ¹ x 120 mm (H)* ¹ x 131 mm (D)* ² , Approx. 2 kg <i>*¹: Excluding protrusions, *²: Excluding protrusions, pole clamp and moving range</i>
Performance Data	
Compatible disposables	Specified syringes for general use and specified pre-filled syringes
Flow rate setting range	0.01 - 150 mL/h (for 5 mL syringes) 0.01 - 300 mL/h (for 10, 20 and 30 mL syringes) 0.01 - 1200 mL/h (for 50/60 mL syringes)
Flow rate display change	0.01 mL/h step (0.01 to 10.00 mL/h)* 0.10 mL/h step (10.00 to 100.00 mL/h)* 1.00 mL/h step (100.00 to 1200.00 mL/h)* <i>*: Step can be used when flow rate is set by the Dial. (It will be 0.00 mL/h when the power is turned on)</i>
Flow rate accuracy	<u>Mechanical accuracy:</u> ± 1% (flow rate ≥1 mL/h) <u>Accuracy including syringe:</u> ± 3% (for all compatible syringe brands indicated in the IFU) <u>Typical accuracy:</u> 2% (incl. mechanical accuracy and syringe accuracy) (i.e. 95% confidence interval) when using Terumo, B.Braun, Omnifix, BD Plastipak Perfusion, Codan and Nipro syringes. (The hourly precision after one hour has passed since the start of infusion at a constant flow rate of 1.00 mL/h or more according to IEC 60601-2-24 standard)
Purge	Approx. 150 mL/h (when using syringes of 5 mL) Approx. 300 mL/h (when using syringes of 10 mL) Approx. 400 mL/h (when using syringes of 20 mL) Approx. 500 mL/h (when using syringes of 30 mL) Approx. 1200 mL/h (when using syringes of 50/60 mL)
Hands on bolus	100 mL/h (when using syringes of 5mL) 100 to 300 mL/h (when using syringes of 10 mL, 20 mL, 30 mL) 100 to 1200 mL/h (when using syringes of 50/60 mL) (100 mL/h step)
Hands free bolus	Dose rate setting range: 0.01 to 10 (0.01 step), 10 to 100 (0.10 step), 100 to 999 (1.00 step) (In units such as mL and mg/kg etc.) Dose time setting range: 1 second to 60 minutes (1 second step)
KVO ¹	Configurable 0.1 mL/h - 3.0 mL/h (only if VTBI functions is enabled)
Standby (Pause) ¹	Default: 24 hours Configurable up to 24 hours with 10 minutes intervals
Operator Interface	
User interface	Standardized user interface for Terufusion pump series
Display	4.3 inch full color LCD
Keypad	7 keys: Power, Start, Stop, Purge, Display Select, Back/Mute, Confirmation

¹ Special function that can be enabled by TERUMO trained service technicians by changing the internal settings of the pump

Safety System	
Occlusion detection pressure	Occlusion detection pressure can be set in 10 levels: ±10, ±20, ±30, ±40, ±50, ±70, ±90, ±100, ±110, ±120 kPa
Bolus reduction	When an occlusion occurs, the slider is drawn back to reduce the internal pressure
Alarm indicators	Alarm signal with clear text on LCD
Alarms	Occlusion alarm, Nearly Empty alarm, Slider Displacement alarm, Syringe Barrel Detection alarm, Syringe Displacement alarm, Plunger Displacement alarm, Battery alarm, Re-alarm, Start Reminder, No Flow Rate alarm, No VTBI alarm*, Flow Rate/VTBI Volume Judgment alarm*, Completion alarm* *: Only if the VTBI setting function is enabled (Default: disabled)

Power Supply	
Power supply	AC 100-240V, 50-60 Hz Internal battery (Lithium ion battery)
Battery operating time	Approx. 12 hours (at 5 mL/h and 25°C with a new fully charged battery)
Battery recharging time	≥8 hours (when charged with AC power supply with the power turned off)

History and Interfaces	
History	Latest 10.000 events can be stored
Interface type	RS-232C (TE-SS702 only)
Nurse call	RS-232C (TE-SS702 only)

Product Codes					
Without RS-232 ¹	With RS-232 ²	Labeling	AC cord	Barcode SS700	Barcode SS702
TE-SS700EN1	TE-SS702EN1	English	European	4987350877277	4987350877291
TE-SS700EN2	TE-SS702EN2		G.B.	4987350712882	4987350714008
TE-SS700DE1	TE-SS702DE1	German	European	4987350712905	4987350714022
TE-SS700FR1	TE-SS702FR1	French		4987350712929	4987350714046
TE-SS700IT1	TE-SS702IT1	Italian	Italian	4987350712943	4987350714060
TE-SS700IT3	TE-SS702IT3			4987350712967	4987350714084
TE-SS700NL1	TE-SS702NL1	Dutch	European	4987350712981	4987350714107
TE-SS700RU1	TE-SS702RU1	Russian		4987350713001	4987350714121
TE-SS700ES1	TE-SS702ES1	Spanish	European	4987350713025	4987350714145
TE-SS700SV1	TE-SS702SV1	Swedish		4987350713049	4987350714442
TE-SS700NO1	TE-SS702NO1	Norwegian	Danish	4987350713063	4987350714466
TE-SS700DA4	TE-SS702DA4	Danish		4987350713087	4987350714480
TE-SS700PL1	TE-SS702PL1	Polish	European	4987350713100	4987350714503
TE-SS700HU1	TE-SS702HU1	Hungarian		4987350713124	4987350714527
TE-SS700SK1	TE-SS702SK1	Slovak		4987350713148	4987350714565

¹: Without RS-232 connection. Without infrared communication/Wireless LAN functions.

²: With RS-232 connection. Without infrared communication/Wireless LAN functions.

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HO 136GB-0413FK-I(04.13)E