



A616S InCare A616S TCI

Fact Sheet

Version Mar 2019







Technical Data	Description	Remarks
Performance Data	·	
Product variants	InCare, TCI	
Dosing units	g, mg, µg, ng, IU, mmol	Per hour, minute, day, kilogramme
Infusion rate	0.1 to 1'500 ml/h	Steps of 0.1 ml/h, modification without infusion interruption
Infusion volume	0.1 to 999.9 ml/1'000 to 9'999 ml	Steps of 0.1 ml/steps of 1.0 ml
Infusion time Programming	1 min to 99 h 59 min Rate in ml/h, volume in ml, duration in h and min	Steps of 1 min
Automatic rate calculation	On the basis of volume and time	
Bolus administration	Manual or automatic	
Bolus rate	0.1 to 1'500 ml/h	Danas dia ana suriana aira
Bolus volume	0.1 to 50 ml 0.1 to 1'500 ml/h	Depending on syringe size Depending on syringe size
Purging of the infusion line	Purge max volume: 1.0 to 5.0 ml/h	See the service manual
Accuracy of delivery rate	±2% (at ≥ 1 ml/h)	With CODAN qualified syringes (list on request)
(According to IEC 60601-2-24)	±5% (at ≥ 1 ml/h)	With customer qualified syringes
Error volume	0.5 to 1.2 ml	Depending on the syringe
Keep Vein Open (KVO) rate	Off or 0.1 to 5.0 ml/h	Configurable
Alarm PUMP UNUSED	Off or 1 to 60 min	Time until the alarm is triggered
History and Interface		
History and event log	Up to 1'000 events	With time stamp
Nurse call	Connection to the central system	24 V/0.2 A, configurable pulse, potential-free
RS-232 interface	Configuration interface	For use with ARGUSservice
Communication interface	Connection to docking stations	Via docking stations, connection to Ethernet is possible (i.e. PDMS)
		(1.0. 1 DIVIO)
Operation		
Display type	Monochrome LCD, 98.4 x 26.2 mm, 240 x 64 Pixel	Adjustable brightness
Night Mode	A feature to automatically dim the brightness of the device	
Menu overview	backlight and front panel LEDs. Intuitive and configurable for specific applications	Available in 18 languages, overview of infusion data
Display contents	Flow rate in units and ml/h, infused volume, target volume	Available iii 10 languages, overview oi illiusion uala
Bioplay contents	(VTBI), infusion time, remaining infusion time, battery	
	capacity, pressure level, text and symbols for alarms and	
	pre-alarms, medication name and medication setup, bolus	
Manua and an anti-	delivery and information menu etc.	Olicat acceife accessoration acceible
Menu configuration	By means of ARGUS service software/temporary settings by	Client-specific configuration possible
Syringes	operator 10 ml, 20 ml, 30 ml, 50/60 ml	Automatic identification of CODAN ARGUS approved
	10 1111, 20 1111, 00 1111, 00/00 1111	syringes, permanent display of the syringe name
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nfusion modes	Standard operation: adjustable infusion rate, infusion volume, infusion time	
	Dose calculation: infusion based on supported dosing units	Medication database is required
	TIVA (Total Intravenous Anesthesia): patient weight (if	modication database to required
	applicable), induction dose (µg), induction time, maintenance	Medication database is required
	rate (µg/h)	
	TCI (Target Controlled Infusion): Minto model for	Available in product variant CODAN A616S TCI
	Remifentanil, Schnider model for Propofol; patient data:	
	gender, age, height, weight	
Safety		
Pressure release	Automatic pressure release after occlusion	
Alarms, pre-alarms	Visual and audible signals for rapid detection	
Alarm types	Syringe position, empty syringe, pressure too high, empty	
	battery, syringe or battery almost empty, standby, limit exceeded etc.	
DEFI proof	Protection against electrical shock from a defibrillator	
Key lock	Activation/deactivation via numerical code	
Pressure limit for occlusion	200 to 1'200 mbar ±200 mbar (CODAN qualified syringes)	Steps of 10 mbar
DERS: Medication database	On request	
Dose Error Reduction System)		
Power Supply		
Battery	1'800 mAh, NiMH	Maintenance-free
Battery operation	9 hours at 5 ml/h, 8 hours at 10 and 25 ml/h	
Battery charging time	6 hours in standby mode	At room temperature
Mains power supply	100 to 240 V, 25 VA, 50 – 60 Hz	
Product Specification		
Dimensions	320 x 100 x 180 mm (W x L x D)	
Housing	ASA high-performance plastic	Including clamp for pole fixation, expandable for rails
Operating temperature	5°C to 40°C	
Temperature for storage	0°C to 40°C -20°C to 60°C	
Temperature for transport Relative humidity	20% to 90% without condensation	
Atmospheric pressure	Operation: 750 to 1'060 mbar	
· · · · · · · · · · · · · · · · · · ·	Storage and transport: 500 to 1'060 mbar	
Weight with battery	2.0 kg	Including power supply unit
Maintenance	Safety Standard Check (SSC): every 24 months	Or after 10'000 operating hours
Compliance		
P Code	IP22	Protected against ingress of solid foreign objects with a
		diameter of ≥ 12,5 mm, and ingress of water in a position
		with 15° inclination.
Protection class		Electric shock protection according to IEC 60601-1
Applied part type	CF	According to EN 60601-1
MDD classification Electrical safety	IIb EN 60601-1, EN 60601-2-24	
Electromagnetic compatibility	EN 60601-1-2 EN 60601-1-2	
Jsability	EN 60601-1-6, EN 62366	
Alarm systems	EN 60601-1-8	
SW life cycle	EN 62304	
Accessories		
Docking stations	CODAN docking stations in 3 sizes for different combinations	
		Version P: only power supply

Combination clamp ARGUSservice

Version P: only power supply Suitable for pole- and rail systems Program for simple maintenance and configuration



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The decisive connection