Syringe Pump ARGUS 606S – Fact Sheet

Firmware 4.7X

![ARGUS logo — CODAN ARGUS]

Technical data	Software 4.7X	Remarks
Performance data		
Applications	Intensive care, anaesthesia, standard care	basic use, TIVA, dose calculation
Dosage units	g, mg, ug, ng, IU, mmol	per hour, minute, day, kilogramme
Flow rate	0.1–1,100 ml/h	in steps of 0.1 ml/h; modification without interruption of the infusion
Infusion volume	0.1–999.9 ml / 1'000–9'999 ml	in steps of 0.1 ml / in steps of 1.0 ml
Infusion time	1 min–99 h 59 min	in steps of 1 min
Programming	Rate in ml/h, volume in ml, duration in h and min	
Automatic rate calculation	on the basis of volume and time	Rate in ml/h, volume in ml, duration of infusion in h and min
Bolus administration	manual or automatic	
Bolus rate	0.1–1'100 ml/h	without interruption of infusion
Bolus volume	0.1–50 ml	depending on syringe size
Purging of the infusion line	0.1–1'100 ml/h	depending on syringe size
Precision	± 1% technical deviation	± 2% depending on syringe type
KVO ‚keep vein open' rate	0.1–5.0 ml/h	configurable; deactivation depending on medication
Standby mode	1 - 60 min	deactivation possible before 1st infusion start
History and Interface		
History and Event Log	1,000 events with graphic illustrations	with time stamp
Nurse call	connection to the central system	24 V / 0.2 A, configurable pulse, potential-free
RS-232 interface	connection to a medical PC	connectable to Patient Data Management System (PDMS)
Ethernet	optional	connectable to Patient Data Management System (PDMS)
Operation		
Display type	monochrome LCD, 98.4 x 26.2 mm, 240 x 64 Pixel	lit, automatic dimmer, adjustable brightness
Display contents	flow rate in units and ml/h, infused volume, target volume (VTBI), infusion time, remaining infusion time, battery capacity, pressure level, text and symbols for alarms and pre-alarms, medication name and medication setup, bolus delivery and information menu, etc.	
Menu Overview	9 keys, fast and intuitive usability	display with text in national language, overview of infusion data
Menu configuration	ARGUSservice software / temporary settings by operator	client-specific configuration possible
Infusion lines	several makes: 10 - 50/60ml	automatic recognition; permanent display of the make
Safety		
Pressure decrease	automatic pressure decrease 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, stand-by, limit exceeded, etc.	
Key lock	activation/deactivation via numerical code	or dose-function limit via ARGUSmedDB
Pressure limit for occlusion	200–1'200 mbar	in steps of 100
DERS: Medication database	256 medications for download	see ARGUSmedDB data sheet and instructions
Power supply		
Battery	NiMH with temperature sensor	maintenance-free
battery operation	9 hours @ 5 ml/h	with capacity display
battery charging time	6 hours in standby mode	
mains power supply	230 VAC ±10%, 50–60 Hz	Option: 115 VAC ± 10%, 50–60 Hz
External power supply	24 VDC	
Power consumption	12 VA maximum	s ss
Product Specification		
Dimensions	320 x 100 x 180 mm (W x H x D)	without combination clip
Housing	high performance plastic ASA	incl. clamp for pole fixation, expandable for rails
Operating-/ medication temperature	5–40 °C / 18 - 30°C	
Temperature for storage and transport	0–40 °C	
Relative humidity	20–90 % without condensation	
Weight with battery	2.2 kg	including power supply unit
Maintenance	safety inspection every 24 months	or after 10'000 operating hours
Compliance		
IP protection class	IPX2	Drop-protected in a horizontal position up to ± 15° inclination
Protection class	II, Type CF (level of protection against electric shock)	
MDD classification	IIb	
Regulation and Electrical Safety	EN 60601(-1-1, -1-4, -1-6, -2-24)	
Electromagnetic compatibility	EN 61000-3 (-2/-3), EN 60601-1-2	
Certification CODAN Argus AG	ISO 13485, ISO 900, directive 93/42/EEC	
Certification Pump	CE 0120	
Accessories		
Docking stations	ARGUS docking stations in 3 sizes for different combinations	Version M: Monitoring (PDMS link) Version P: Power supply
Attachment system	Combination clip	suitable for pole- and rail systems
Software	ARGUSservice	program for simple maintenance and configuration
	ARGUSmedDB	database for medications with ARGUSrails