

aitecs®

Advanced Syringe Pump

2017

The **aitecs® 2017 Syringe Pump** is an advanced, configurable and versatile syringe pump offering enhanced safety in all clinical environments. The common user interface across the aitecs® range promotes ease of use and simplifies device training needs.

The **aitecs® 2017 Syringe Pump** can be used as a stand-alone device or be stacked together with other aitecs® pumps on the aitecs® Infusion Docking Station providing connectivity compatible with the aitecs® Infusion Management System, Patient Data Management Systems (PDMS) and/or Hospital Information Systems (HIS) via the open system architecture.

Safety, Reliability and Flexibility



Advanced
Syringe Pump

Area for reseller info here

MOOG®

aitecs® 2017 Syringe Pump specifications

Flow Rate Range	0.01-9.999 mL/h in 0.001 mL/h steps 10.0-99.99 mL/h in 0.01 mL/h steps 100.0-999.9 mL/h in 0.1 mL/h steps 1000-2200 mL/h in 1 mL/h steps
Volumetric Accuracy	±2 % (according to EN 60601-2-24)
Syringe Sizes	2/3 mL, 5/6 mL, 10/12 mL, 20/22 mL, 30/35 mL, 50/60 mL (all major brands, additional brands upon agreement)
Infusion Modes	Continuous Volume Over Time Dose Over Time Intermittent Total Parenteral Nutrition (TPN)
Dose Units	g, mg, mcg, ng, Units, kUnits, mUnits, mcUnits, mol, mmol, mcmol, mEq, and other configured by the medical personnel
Occlusion Alarm	Up to 10 levels
Rapid Occlusion Detection (ROD)	Less than 5 min at High sensitivity level (at 1 mL/h with 60 mL syringe)
Restart After Occlusion	0-3 (configurable)
Prime Rates	1-100 mL/h (2/3 mL syringes) 1-125 mL/h (5/6 mL syringes) 1-325 mL/h (10/12 mL syringes) 1-600 mL/h (20/22 mL, 30/35 mL and 50/60 mL syringes)
Bolus Volume Limit	1-100 % of syringe size or 0.01-99.99 mL (configurable)
Bolus Rate Range	10.01-9.999 mL/h in 0.001 mL/h steps 10.0-99.99 mL/h in 0.01 mL/h steps 100.0-999.0 mL/h in 0.1 mL/h steps 1000-2200 mL/h in 1 mL/h steps
KVO Volume	0.1-10 % of the syringe volume or OFF (configurable)
KVO Rate Range	0.10-5.00 mL/h (configurable)
Volume To Be Infused	0.1-999.9 mL in 0.1 mL steps
Infusion Time	00:01-200:00 (HH:mm)
Volume Limit	0.1-999.9 mL
Post VTBI action	Stop and KVO
Standby Time	00:01-23:59 (HH:mm)
Delayed Start	0:01-06:00 (HH:mm)
Dose Error Reduction Software	< 1500 unique drug entries with nested limits available, arranged in up to 30 Profiles with up to 15 Categories with up to 40 Drugs (up to 75 Drug Advisories)
Near End Of Infusion alarm	3-120 min or 1-50 mL (to end of infusion or syringe empty)
Maximum Volume under Single Fault Condition	< 0.5 mL
Alarm Loudness	5 Levels
Warnings (Medium Priority)	Syringe Empty – KVO xx mL/min to End of Infusion Standby Time Elapsed End of Infusion – KVO No Mains Low Battery Pressure Decreasing xx mL/min to Syringe Empty Pressure Increasing

Alarms (High Priority)	System Malfunction (Code) Syringe Barrel Not Seated Volume Limit Reached – Stop Replace Battery Syringe Clamp Open Depleted Battery Occlusion Pusher Disengaged Syringe Empty – Stop Syringe Plunger Not Captured End of Infusion – Stop
Interfaces	USB (peripheral), IrDa (IR Comms port), Nurse Call (optional)
Mounting	IDS (Infusion Docking Station), universal pole clamp, Dräger (horizontal) rectangular bar, table top operation
Event Log	> 2000 events
Patient History Log	> 500 events
Key Log	> 300 key presses
Service Log	> 50 error codes
Safety Log	> 1000 events
Protection	Class IIb, Defibrillation-proof type CF applied part, IP43
CE Mark	Device complies with the essential requirements of Council Directive 93/42/EEC concerning medical devices
Standards of Conformity	IEC/EN 60601-1, IEC/EN 60601-1-2, IEC/EN 60601-1-6, IEC/EN 60601-1-8, IEC/EN 60601-2-24, IEC/EN 62304, ISO 14971, EN 980
Power Supply	100-240 VAC, 50/60 Hz, 50 VA
Battery Type	Li-Ion, 7.4 V
Battery Charging Time	< 5 h to 100 % charge
Battery Operation	not less than 15 h @ 0.01-25 mL/h (at 20 °C) not less than 12 h @ 100 mL/h (at 20 °C)
External DC Power Supply	12 VDC, 2 A (optional)
Memory Retention	> 9 months (when not powered up)
Dimensions (WxHxD)	346 mm x 120.5 mm x 140 mm (excluding pole clamp)
Weight	≈ 2.3 kg (excluding pole clamp)

Related Products and Accessories

Infusion Docking Station	Centralized power distribution and communication capabilities: IDS (03, 04, 06, 08)
Fixation	Universal pole clamp and other mounting options (incl. an option to mechanically connect multiple pumps)



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