



**FRESENIUS
KABI**

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Link+ Agilia

Infusion Rack System with advanced communication capabilities

Accommodates 4, 6 or 8 Agilia IV pumps for power centralization and advanced communication capabilities

The pump alarm centralization display is visible in a 360° view within a 4-meter range

Data communication connector

1. Infrared (IR) connector specifications

Function: Data communication with the Agilia IV infusion pumps
 Mode: Wireless optical communication using infrared light
 Compatibility: Asynchronous Serial Infrared (SIR) physical layer irPHY 1.0, baseband no carrier
 Transport protocol: Proprietary
 Speed: 115.2 kb/s max
 Wavelength: 880 nm to 900 nm infrared band with 45 nm spectral bandwidth
 Eyes safety: < 500 mW/sr maximum intensity for class 1 of IEC/EN 60625-1 - January 2001

2. USB PC connector specifications

Function: External PC connection for maintenance and configuration
 Connector: External standard Mini B slave connector
 Indicator: Blue LED
 Output power: No power output available and remote host power not used
 Compatibility: USB 2.0 OTG Slave role only
 Insulation: Not insulated from USB external device, but provides double insulation (4 kV) from mains
 Speed: 480 Mb/s max. (theoretical)

3. RS232 serial communication connector specifications

Function: System management, PC, PDMS, or maintenance connection
 Connector: ADAM TECH shielded circular female connector, 3 pins
 Indicator: Blue LED
 Compatibility: RS232 levels, serial asynchronous, half duplex
 Insulation: 1.5 kV insulation from external system + provides double insulation (4 kV) from mains
 Speed: 115.2 kb/s max. (theoretical)

4. Wired network connector specifications

Function: System management, PC, or maintenance connection
 Connector: RJ45 8 pins
 Indicator: Blue LED
 Compatibility: IEEE 802.3 Ethernet 10baseT or fast Ethernet 100baseT, twisted pairs, Full duplex
 Insulation: 1.5 kV insulation from external system + provides double insulation (4 kV) from mains
 Speed: Automatic speed selection 10 Mb/s or 100 Mb/s (theoretical)

Central Processing Unit (CPU) specifications

Function

Data processing and communications

Processor

32 bits, 400 MHz

Central memory

64 Mbytes, high speed RAM 266 MHz

Flash memory

Non volatile 256 Mbytes

Operating system

Safety and flexible multitasking / multithreading operating system with GPL license

Nurse call connector specifications

Function

External alarm NURSE CALL signaling

Connector

Stereo JACK 3.5 mm connector

Indicator

Red LED

Compatibility

Relay, dry contacts stand-off / work contact - positive / negative polarity option

Contacts

DC24 V / 2 A max

Insulation

1.5kV insulation from external system + provides double insulation (4 kV) from mains

User interface specifications

Pump centralization display

Function: displays infusion pump alarms and pre-alarms
 Size: 70 mm x 30 mm - Type: LED
 Viewing angle: 360° at 4 meters
 Events :
 - Blinking RED - High priority alarm
 - Blinking YELLOW - Medium priority alarm
 - Fix YELLOW - Low priority alarm, or in maintenance mode.
 If two alarms occur at the same time, the higher priority alarm is displayed.

Mains status indicator

Function: displays mains connected status
 Type: LED
 Color: GREEN

Battery status indicator

Function: displays Link+ battery status
 Type: LED
 Color: GREEN / YELLOW / RED.

System status indicator

Function: displays Link+ internal software status
 Type: LED
 Color: GREEN / YELLOW / RED

Reset button

Function: Reboots Link+ internal software
 Type: protected push button

Battery specifications

Function

Backup battery for mains power failures and transport of the rack

Access

Internal battery holder accessible with specific tools by qualified engineer

Characteristics

7.2 V / 2.2 Ah - Lithium Ion rechargeable battery
 7.34 V / 2.75 Ah - Lithium Ion rechargeable battery

Battery autonomy

1 hour min

Self protections

Over-current, over-discharge, over-voltage and overtemperature

Battery life

Preventive replacement after 3 years

Mains power input specifications

Function

Primary power source for Agilia power outlets and for internal electronics of Link+ Agilia

Connector

Standard appliance inlet IEC type C14 - male - 3 poles

Power supply

100 V to 240 V AC - 50 / 60 Hz

Maximum power (with pumps)

Input power

Link 4+ Agilia : 45 - 70 VA

Link 6+ Agilia: 60 - 90 VA

Link 8+ Agilia: 67 - 101 VA

Protective fuses

2 fuses, 2 A timed with high breaking capacity - T 2A H 250 V. Fuseholder is externally accessible on mains power inlet connector

Electric protection

Class I with protective earth, with 3-wire power cord

Mechanical Specifications for locking clamps

Pole

Diameter: from 16 to 42 mm

Rail

Height: from 16 to 42 mm / Depth: 10 mm max

Compliance

CE

Complies with the 93/42/EEC Medical Device Directive or the Medical Device Regulation (EU) 2017/745

Safety of electromedical equipments

- Complies with EN/IEC 60601-1
- IP22 protection against dust and splashing liquid
- Protection against leakage current: type B applied part
- Class I with protective earth

Agilia power outlets are wired on internal functional earth to reduce residual current that may disturb ECG or EEG devices

EMC (electromagnetic compatibility)

Complies with EN/IEC 60601-1-2

Agilia pump power output specifications

Function

Power source output for Agilia infusion pumps

Connector

Standard line outlet IEC type C13 - female - 3 poles

Power supply

100 V to 240 V AC - 50/60 Hz

Maximum power

15 VA per outlet

Protective fuses

Report to mains power input fuses

On/Off power

No power on empty position - Earth pole is functional earth only

Cable accessories

USB cable: Z073551

RS232 cable: Z073601

Nurse call cable: Z073602.

Dimensions - Weight

Link 4+ Agilia

H/W/D (+/- 5 mm): 718 mm x 210 mm x 121 mm

Max weight: 4.2 kg

Link 6+ Agilia

H/W/D (+/- 5 mm): 1004 mm x 210 mm x 121 mm

Max weight: 5.5 kg

Link 8+ Agilia

H/W/D (+/- 5 mm): 1290 mm x 210 mm x 121 mm

Max weight: 6.7 kg

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