



Link+ Agilia®

Infusion Rack System with advanced communication capabilities

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

The pumps centralization display is visible 360° up to 4 meters.

Works with standardized communication protocols, ensuring seamless IT integration.

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° @ 4 meters.

Color: RED (pump alarms - high priority) / YELLOW (pump pre-alarms - Medium and low priority) / RED and YELLOW (maintenance mode).

Main status indicator:

Function: displays main 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.

Battery autonomy: 1 H 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.

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

Weight 4.2 kg

Link 6+ Agilia:

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

Weight 5.5 kg

Link 8+ Agilia:

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

Weight 6.7 kg

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/CEE Medical directive

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.