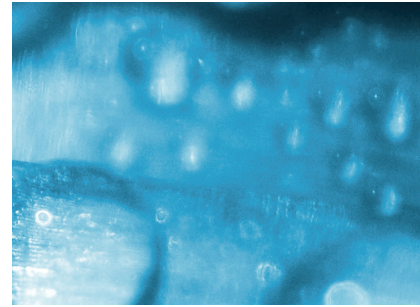# CODAN

# Volumetric Infusion Pumps

A717V, A718V
A717V Plus, A718V Plus
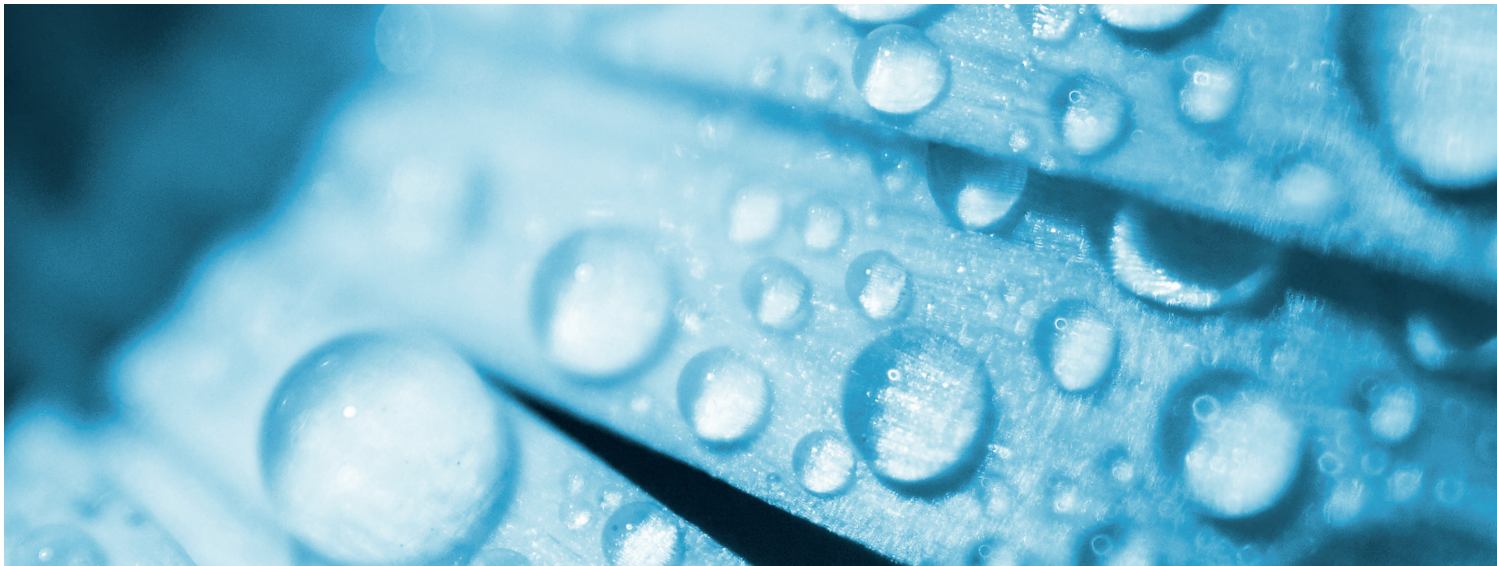
# Fact Sheet

Version Mar 2021
For Firmware version 5.50

**en**

| Technical Data | Description | Remarks |
|---|---|---|
| **Performance Data** | | |
| Product variants | A71XV, A71XV Plus | |
| Dosing units | g, mg, µg, ng, IU, mmol | Per hour, minute, kilogram, day |
| Flow rate | 0.1 to 1,200 ml/h | Steps of 0.1 ml/h from 0.1 to 999.9 ml/h rates, steps of 1 ml/h from 1,000 to 1,200 ml/h rate. |
| Infusion volume | 0.1 to 999.9 ml/1,000 to 9,999 ml | Steps of 0.1 ml from 0.1 to 999.9 ml volume/steps of 1 ml from 1,000 to 9,999 ml volume. |
| Infusion time | 1 min to 99 h 59 min | Steps of 1 min |
| Programming | Rate in ml/h, volume in ml, duration in h and min | |
| Automatic rate calculation | Based on the volume and time | Rate in ml/h volume in ml, infusion duration in h and min |
| Bolus administration | Manually or automatically | With/without dose limit, limits via MED DB |
| Bolus rate/volume | 0.1 to 1,200 ml/h/0.1 to 999 ml | Without infusion interruption |
| Purging of the infusion line | 0.1 to 1,200 ml/h | |
| Accuracy of delivery rate | ±5% | Under normal conditions according to IEC 60601-2-24 Qualified administration sets (included in the pump menu) |
| Keep Vein Open (KVO) rate | 0.1 to 10.0 ml/h | Depending on infusion rate; deactivation possible |
| Standby mode | 1 to 60 min | |
| **History and Interface** | | |
| History and event log | Up to 1,000 events | With timestamp |
| Nurse call | Connection to the central system | All A71XV variants. 24 V/0.2 A, configurable pulse, potential-free |
| RS-232 interface | Configuration interface | For use with ARGUS*service* |
| Communication interface | Connection to docking stations/via docking stations | Connection to Ethernet is possible (i.e. PDMS) |
| Ethernet and Wi-Fi | Health Level 7 (HL7), IHE Profiles: DEC, CT, SN | A71XV Plus only, (Wi-Fi optional, cannot be retro-enabled) |
| Bluetooth | Secure 1 to 1 connection | For Patient ID scan and Barcode Assisted Infusion (BAI) |
| **Operation** | | |
| Applications | Intensive care, anaesthesia, standard care, oncology, blood transfusion, parenteral nutrition, neonatal care | Dose calculation |
| Display type | Monochrome LCD, 98.4 x 26.2 mm, 240 x 64 Pixel | Illuminated, adjustable brightness |
| Night Mode | A feature to automatically dim the brightness of the device backlight and front panel LEDs. | |
| Display contents | Infusion rate in units and ml/h infused & target volume (VTBI), infused & remaining time, medication setup, bolus info, battery capacity, pressure level, and other menus. | |
| Menu overview | Intuitive and configurable for specific applications | Available in 18 languages, an overview of infusion data |
| Menu configuration | ARGUS*service* software/temp settings by the operator | Client-specific configuration possible |
| Infusion lines | CODAN standard and cyto-sets and other validated sets | Tube materials: PVC, PVC-free, No DEHP/display of the set name |
| | A718V, A718V Plus: CODAN IVIP© dedicated set | With anti-free-flow clamp |
| **Safety** | | |
| Pressure release | Automatic pressure release after occlusion | Configurable |
| Air bubble detection | Individual air bubbles | Configurable from 50 to 1,000 µl |
| | accumulated air bubbles | Configurable from 100 to 2,000 µl within 8 to 64 min |
| Drop detector | 10 to 65 drops/ml | In transport mode, the alarm is less sensitive |
| Alarms, pre-alarms | Visual and audible signals for rapid detection | With text explanation and symbols, large alarm window |
| Alarm types | Occlusion (up and downstream), air bubbles, no drops and too many drops, end of infusion, standby, low battery, end of battery, maintenance due etc. | |
| Key lock | Activation/deactivation via numerical code | |
| Pressure limit for occlusion | 100 to 1,200 mbar (also in mmHg, kPa, cmH$_2$O, Psi) | Configurable steps |
| DERS: Medication database, and | MED DB for A71XV and A71XV Plus | On request |
| Barcode Assisted Infusion (BAI) | BAI with E-VTBI & Rinsing modes. A71XV Plus variants only. | Packaged bundle, optional (cannot be retro-enabled) |
| **Power Supply** | | |
| Battery | 1,800 mAh, NiMH | Maintenance-free |
| Battery operation | 6 hours at 25 ml/h | |
| | 5.5 hours at 25 ml/h for the Plus variant | |
| 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 | 190 x 160 x 130 mm (W x L x D) | Without combination clamp |
| Housing | ASA high-performance plastic | |
| Operating/medication temperature | 5°C to 40°C/18°C to 30°C | |
| Temperature for storage/ transport | 0°C to 40°C/-20°C to 60°C | |
| 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 | 1.78 kg | Including battery and power supply unit |
| Maintenance | Safety Standard Check (SSC): every 24 months | Or after 10,000 operating hours |
| **Compliance** | | |
| IP Code | IP22 | Protection against ingress of solid foreign objects with a diameter of ≥ 12.5 mm, and ingress of water in a position with 15° inclination. |
| Wi-Fi and Bluetooth Frequency | Single-band 2.4 GHz | |
| Protection class | II | Electric shock protection according to IEC 60601-1 |
| Applied part type | CF | According to IEC 60601-1 |
| MDD classification | IIb | |
| Electrical safety | IEC 60601-1, IEC 60601-2-24 | |
| Electromagnetic compatibility | IEC 60601-1-2 | |
| Usability | IEC 60601-1-6, IEC 62366 | |
| Alarm systems/SW life cycle | IEC 60601-1-8, IEC 62304 | |
| **Accessories** | | |
| Docking stations | CODAN docking stations in 3 sizes for different combinations | Version M: PDMS link + power supply Version P: only power supply |
| Attachment system | Combination clamp | Suitable for pole and rail systems |
| Software | ARGUS*service* | Program for simple maintenance and configuration |

**SIMPLIFIED EU DECLARATION OF CONFORMITY**

CE Hereby, CODAN ARGUS AG (Baar) declares that the radio equipment type A71XV Plus is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at www.codanargus.com

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