MOUNTING REFERENCE GUIDE

Fukuda Denshi Monitoring

CIM Cable Integrated Mounting System
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General notes

Components' grounding
All arms with integrated cable management are equipped with component grounding. No grounding is required for arms with external or semi-integrated cable management with cables not being led through joints.

Load capacity
All height adjustable arms have a load capacity of 22 kg / 48.5 lbs. Rear mounted monitor adaptations and horizontally mounted 5” plunge plates accept a maximum monitor weight of 18 kg / 39.7 lbs. An additional 4 kg / 8.8 lbs may be mounted on a down post underneath the front swivel part. Depending on material and tensile factor all weight indications have a 4-fold and / or 6-fold safety factor according to EN 60601-1, 3rd Edition regulations.

Custom-designed solutions and MRI applications
Please contact us for custom-designed solutions.

Product marking
All CIM products are CE marked. As medical product risk class 1 and they conform with the regulations MDD 93/42 ECC and EN 60601-1, 3rd Edition. TUEV reports for numerous products especially for anaesthesia applications guarantee electrical and mechanical safety of our products and are available upon request.
How to create part numbers

Part numbers can be easily created by following the steps below:
Please replace the letters in green with the part no. code as per your requirements.

1. Components’ grounding:
   A = grounded

2. Choose the arm version required:
   224FK / 230FK = support arm pivot
   224FKU / 230FKU = support arm pivot for parameter units
   431FK = height adjustable arm
   73130FK = extended height adjustable arm

3. Specify where you want to mount the arm and select the fixing (Y):
   1V = pole ø 23 - 40 mm / 0.9 - 1.6”
   1 = pole ø 25 mm / 1.0”
   1F = pole ø 35 mm / 1.4”
   1C = pole ø 38 mm / 1.5”
   2F = horizontal rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm
   3 = vertical rail 10 x 25 mm
   3DR = dual vertical rails, distance 150 mm/ 5.9”
   3TX = dual vertical rails, distance 225 mm/ 8.9”
   4V = vertical wall channel
   13 = Mindray medical supply units
   17 = Amico pendants & headwalls
   9 = Löwenstein Medical anaesthesia machine
   4K = anaesthesia machine with existing channel
4. Choose the colour requested for decorative parts (C):
   - gr = RAL 7024 (graphite grey)
   - bl = RAL 5013 (cobalt blue)

5. Choose the colour requested for the aluminium die-cast parts (D):
   - 1 = RAL 9016 (traffic white)

6. Specify the spring depending on the weight of your monitor/ device - only with height adjustable arms (X):
   - 130 = 7.5 - 13 kg / 16.5 - 28.7 lbs
   - 175 = 13 - 16 kg / 28.7 - 35.3 lbs
   - 220 = 16 - 22 kg / 35.3 - 48.5 lbs

---

Example

<table>
<thead>
<tr>
<th>01 Grounding</th>
<th>02 Arm version</th>
<th>03 Fixing</th>
<th>04 &amp; 05 Colour</th>
<th>06 Spring tension</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>-</td>
<td>Y</td>
<td>.</td>
<td>C1</td>
</tr>
<tr>
<td></td>
<td>431FK</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>4V</td>
<td>.</td>
<td>gr1</td>
</tr>
<tr>
<td></td>
<td>431FK</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Product highlights

Non-height adjustable arm
Pivot and extended pivot arms offer full cable integration and easy cleaning for infection control in all critical care areas in the clinical environment. Our 5-years warranty guarantees reliable, trouble-free and maintenance-free operation. The swivel function at the fixing point as well as the tilt/swivel function of the monitor adaptation offers optimum positioning of your device. The extended pivot arm is a two-part arm with central pivot point between the two arm sections. All bottom-mounted monitors have the safety feature of a 20° tilt stop.

Height adjustable arm
The height adjustable arm offers full cable integration, one-wipe clean surfaces and our 5-year warranty on the entirety of the product. Vertically and horizontally adjustable, the arm offers optimal positioning of your device. A constant viewing angle when vertically adjusted is guaranteed by a parallel linkage. Weight-optimized springs counter-balance the monitor without making any adjustments. All bottom-mounted monitors have the safety feature of a 20° tilt stop. Individual rotational stops may be integrated in any joint.

To provide the perfect combination of arm and monitor, the CIM articulated height adjustable arm has a simple quarter-turn lock to hold the arm safely in position when removing the monitor. Furthermore, the arm is equipped with the unique safety feature of a slow-release gas spring. Should anybody try to remove the monitor before locking the arm in position, the arm will only rise at a slow and even tempo.
Support arm pivot

Monitor adaption
Fukuda mounting adapter

Colours to choose
decorative parts  RAL 5013 cobalt blue / RAL 7024 graphite grey
aluminum parts  RAL 9016 traffic white

Max. load capacity support arm
18 kg / 39.7 lbs

Max. load monitor adaptation
18 kg / 39.7 lbs

Product weight
240 mm / 9.5": 2.0 kg / 4.4 lbs  300 mm / 11.8": 2.1 kg / 4.6 lbs

Part number
arm length 240 mm / 9.5"  A-230FK-Y.C1
arm length 300 mm / 11.8"  A-224FK-Y.C1

Fixings
Y  |  details page 24 and 25

4V  |  Adapter for vertical wall channel

2F  |  Fixed rail clamp

3  |  Vertical rail clamp

3DR 3TX  |  Dual vertical rail clamp

1F 1C 1V  |  Fixed / universal pole clamp

13  |  Adapter for Mindray medical supply units

17  |  Adapter for Amico pendants & headwalls

9  |  Adapter for Löwenstein Medical anaesthesia machines

4K  |  Adapter for anaesthesia machines with existing side channel
Support arm pivot

Technical data - arm length 300 mm / 11.8”

SIDE VIEW

TOP VIEW
Height adjustable arm

Monitor adaption: Fukuda mounting adapter
Height adjustment: slow-flowing spring, parallel linkage for a constant viewing angle
Colours to choose:
- Decorative parts: RAL 5013 cobalt blue / RAL 7024 graphite grey
- Aluminum parts: RAL 9016 traffic white
Max. load capacity support arm: 22 kg / 48.5 lbs
Max. load monitor adaptation: 18 kg / 39.7 lbs
Product weight: 3.6 kg / 7.9 lbs
Balancing range:
- 1300 N (7.5-13 kg / 16.5-28.7 lbs)
- 1750 N (13-16 kg / 28.7-35.3 lbs)
- 2200 N (16-22 kg / 35.3-48.5 lbs)
Part number: A-431FK-Y.C1_X

Fixings

- 4V: Adapter for vertical wall channel
- 2F: Fixed rail clamp
- 3: Vertical rail clamp
- 3DR 3TX: Dual vertical rail clamp
- 1F 1C 1V: Fixed / universal pole clamp
- 13: Adapter for Mindray medical supply units
- 17: Adapter for Amico pendants & headwalls
- 9: Adapter for Löwenstein Medical anaesthesia machines
- 4K: Adapter for anaesthesia machines with existing side channel

Details page 24 and 25
Height adjustable arm

Technical data

SIDE VIEW

TOP VIEW
Extended height adjustable arm

- Monitor adaption: Fukuda mounting adapter
- Height adjustment: slow-flowing spring, parallel linkage for a constant viewing angle
- Colours to choose:
  - decorative parts: RAL 5013 cobalt blue / RAL 7024 graphite grey
  - aluminum parts: RAL 9016 traffic white
- Max. load capacity support arm: 22 kg / 48.5 lbs
- Max. load monitor adaptation: 18 kg / 39.7 lbs
- Product weight: 5.0 kg / 11.0 lbs
- Balancing range:
  - 1300 N (7.5-13 kg / 16.5-28.7 lbs);
  - 1750 N (13-16 kg / 28.7-35.3 lbs);
  - 2200 N (16-22 kg / 35.3-48.5 lbs)
- Part number: A-73130FK-Y.C1_X

Fixings:
- 4V: Adapter for vertical wall channel
- 2F: Fixed rail clamp
- 3: Vertical rail clamp
- 3DR: Dual vertical rail clamp
- 1: Fixed / universal pole clamp
- 1F: Adapter for Amico pendants & headwalls
- 1C: Adapter for Löwenstein Medical anaesthesia machines
- 4K: Adapter for anaesthesia machines with existing side channel

Y | details page 24 and 25
Extended height adjustable arm

Technical data

SIDE VIEW

TOP VIEW
Brackets for super unit and super unit with gas module

Part no. FK-SU.1
Bracket for super unit

Part no. IR-SU-PR.1
Bracket for super unit with gas module

Illustration with pivot support arm and bracket for super unit with gas module
Brackets for super unit and super unit with gas module

Technical data | Super unit | Super unit with gas module
---|---|---
**SIDE VIEW**

**TOP VIEW**
Wall-mounted brackets for parameter units

**Part no.** FK-FKU-4V.1  
Wall-bracket for parameter unit

**Part no.** FK-FKU-V2-4V.1  
Wall-bracket for parameter unit - short
Wall-mounted brackets for parameter units

Technical data

SIDE VIEW

![Side view diagram]

TOP VIEW

Wall-bracket for parameter unit

Wall-bracket for parameter unit - short

![Top view diagram]
# Support arm pivot for parameter units

<table>
<thead>
<tr>
<th>Monitor adaption</th>
<th>Fukuda tray for Parameter Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colours to choose</td>
<td>decorative parts: RAL 5013 cobalt blue / RAL 7024 graphite grey, aluminum parts: RAL 9016 traffic white</td>
</tr>
<tr>
<td>Max. load capacity support arm</td>
<td>18 kg / 39.7 lbs</td>
</tr>
<tr>
<td>Max. load monitor adaptation</td>
<td>18 kg / 39.7 lbs</td>
</tr>
<tr>
<td>Product weight</td>
<td>240 mm / 9.5”: 3.1 kg / 6.8 lbs, 300 mm / 11.8”: 3.2 kg / 7.1 lbs</td>
</tr>
<tr>
<td>Part number</td>
<td>arm length 240 mm / 9.5” A-224FKU-Y.C1, arm length 300 mm / 11.8” A-230FKU-Y.C1</td>
</tr>
</tbody>
</table>

## Fixings

- **4V**: Adapter for vertical wall channel
- **2F**: Fixed rail clamp
- **3**: Vertical rail clamp
- **3DR 3TX**: Dual vertical rail clamp
- **1F 1C 1V**: Fixed / universal pole clamp
- **13**: Adapter for Mindray medical supply units
- **17**: Adapter for Amico pendants & headwalls
- **9**: Adapter for Löwenstein Medical anaesthesia machines
- **4K**: Adapter for anaesthesia machines with existing side channel

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CIM-MED.COM
Support arm pivot for parameter units

Technical data - arm length 300 mm / 11.8”
Cart light duty - Fukuda bracket

Monitor adaption
Fukuda mounting adapter

Accessories
5-star base aluminum base with counter weight
double wheel castors, ø 100 mm / 3.9”, 2 lockable
column to accept components and accessories on opposite sides

Colours
decorative parts  RAL 5013 cobalt blue
base          RAL 5013 cobalt blue
handle        RAL 5013 cobalt blue

Max. load capacity
14 kg / 30.9 lbs

Optional accessories
wall-mounted bracket for parameter units
basket big 300 x 200 x 180 mm / 11.8 x 7.9 x 7.1”
basket small 200 x 150 x 100 mm / 7.9 x 5.9 x 3.9”
handle

Part number
cart  R-002FK.bl6
wall-mounted bracket FK-FKU-4V.1
basket big  Z-51-4Z
basket small Z-52-4Z
handle    Z-HD-4.bl1
Cart light duty - Fukuda bracket

Technical data

SIDE VIEW

1220 mm / 48.0”
900 mm / 35.4”
673 mm / 26.5”
523 mm / 20.6”

TOP VIEW

158 mm / 6.2”
380 mm / 15.0”
411 mm / 16.2”
547 mm / 21.5”
Cart light duty - monitoring

Monitor adaption
- 5” plunge plate with tilt function

Accessories
- 5-star base aluminum base with counter weight
- double wheel castors, ø 100 mm / 3.9”, 2 lockable
- column to accept components and accessories on opposite sides

Colours
- decorative parts: RAL 5013 cobalt blue
- base: RAL 5013 cobalt blue
- handle: RAL 5013 cobalt blue

Max. load capacity
- 7 kg / 15.4 lbs

Optional accessories
- basket big: 300 x 200 x 180 mm / 11.8 x 7.9 x 7.1”
- basket small: 200 x 150 x 100 mm / 7.9 x 5.9 x 3.9”
- handle

Part number
- cart: FK-002A.bl6
- basket big: Z-51-4Z
- basket small: Z-52-4Z
- handle: Z-HD-4.bl1
Cart light duty - monitoring

Technical data

**SIDE VIEW**

**TOP VIEW**

547 mm / 21.5" 523 mm / 20.6"
Monitor-specific mounting adapter

<table>
<thead>
<tr>
<th>Type of monitor</th>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-7000 Series, DS-8100</td>
<td>Mounting adapter for 5” plunge plate</td>
<td>FK-AP-DS7000</td>
</tr>
<tr>
<td>DSL-8001</td>
<td>Mounting adapter for 5” plunge plate</td>
<td>OAO-57A</td>
</tr>
</tbody>
</table>

*Fukuda mounting adapter
Please order this additionally with Fukuda.*
## Fixings

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Notes</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Adapter for vertical wall channel" /></td>
<td>Adapter for vertical wall channel</td>
<td>To mount to CIM wall channel (compatible with GCX channel) Please order separately: CIM wall channel, see catalogue accessoires</td>
<td>4V</td>
</tr>
<tr>
<td><img src="image" alt="Fixed rail clamp" /></td>
<td>Fixed rail clamp</td>
<td>To mount to horizontal European rails 10 x 25, 8 x 35, 10 x 30, 10 x 50 mm</td>
<td>2F</td>
</tr>
<tr>
<td><img src="image" alt="Vertical rail clamp" /></td>
<td>Vertical rail clamp</td>
<td>To mount to vertical European rail 10 x 25 mm</td>
<td>3</td>
</tr>
<tr>
<td><img src="image" alt="Dual vertical rail clamp" /></td>
<td>Dual vertical rail clamp</td>
<td>To mount to two parallel vertical European rails 10 x 50 mm Distance between rails 150 mm / 5.9”, e.g. Dräger pendant Distance between rails 225 mm / 8.9”, e.g. Trilux pendant</td>
<td>3DR 3TX</td>
</tr>
<tr>
<td><img src="image" alt="Fixed pole clamp" /></td>
<td>Fixed pole clamp</td>
<td>To mount to pole φ 25 mm / 1.0” To mount to pole φ 35 mm / 1.4” To mount to pole φ 38 mm / 1.5”</td>
<td>1F 1C</td>
</tr>
<tr>
<td><img src="image" alt="Universal pole clamp" /></td>
<td>Universal pole clamp</td>
<td>V-block to mount to pole φ 23 - 40 mm / 0.9 - 1.6”</td>
<td>1V</td>
</tr>
<tr>
<td><img src="image" alt="Adapter medical supply units" /></td>
<td>Adapter medical supply units</td>
<td>For Mindray medical supply units</td>
<td>13</td>
</tr>
<tr>
<td><img src="image" alt="Adapter pendants &amp; headwalls" /></td>
<td>Adapter pendants &amp; headwalls</td>
<td>For Amico pendants &amp; headwalls</td>
<td>17</td>
</tr>
</tbody>
</table>
# Fixings for anaesthesia machines

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Notes</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Adapter for Löwenstein Medical anaesthesia machines</td>
<td>Adapter for Leon / Leon plus</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Adapter for anaesthesia machines (all suppliers)</td>
<td>H 80 mm / 3.1” With existing side channel</td>
<td>4K</td>
</tr>
</tbody>
</table>

If your anaesthesia machine does not have a side channel already mounted to the machine, please order the following in addition to 4K:

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Notes</th>
<th>Part no.</th>
</tr>
</thead>
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<tr>
<td></td>
<td>Adapter for Dräger</td>
<td>Dräger Primus / Julian / Cato / Fabius GS / Zeus side channel adapter L 127 mm / 5” side channel adapter L 320 mm / 12.6”</td>
<td>DR-J01 DR-J02</td>
</tr>
<tr>
<td></td>
<td>Adapter for GE</td>
<td>GE Avance / Aespire / Aestiva side channel adapter L 200 mm / 7.9”</td>
<td>DX-AES-01</td>
</tr>
</tbody>
</table>