**DATA SHEET MONitors M2 – M9**
REMOTE-CONTROLLED, WITH THREE-PHASE CURRENT DRIVES AND ADJUSTABLE MULTI-PURPOSE NOZZLE (AMPN).

**1. GENERAL TECHNICAL DATA.**

<table>
<thead>
<tr>
<th>Type series</th>
<th>M2</th>
<th>M3</th>
<th>M4</th>
<th>M5</th>
<th>M7</th>
<th>M7</th>
<th>M9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. water flow rate</td>
<td>2500 l/min</td>
<td>4000 l/min</td>
<td>8000 l/min</td>
<td>12 000 l/min</td>
<td>20 000 l/min</td>
<td>24 000 l/min</td>
<td>40 000 l/min</td>
</tr>
<tr>
<td>Connecting flange (optionally)</td>
<td>DN65 PN16, DN80 PN16</td>
<td>DN80 PN16, DN100 PN16</td>
<td>DN100 PN16, DN150 PN16</td>
<td>DN150 PN16, DN200 PN16</td>
<td>DN200 PN16</td>
<td>DN200 PN16</td>
<td>DN250 PN16</td>
</tr>
<tr>
<td>ASME B 16.5 150 lbs. 2 ½”</td>
<td>ASME B 16.5 150 lbs. 3”</td>
<td>ASME B 16.5 150 lbs. 4”</td>
<td>ASME B 16.5 150 lbs. 6”</td>
<td>ASME B 16.5 150 lbs. 8”</td>
<td>ASME B 16.5 150 lbs. 8”</td>
<td>ASME B 16.5 150 lbs. 10”</td>
<td></td>
</tr>
<tr>
<td>ASME B 16.5 150 lbs. 3”</td>
<td>ASME B 16.5 150 lbs. 4”</td>
<td>ASME B 16.5 150 lbs. 6”</td>
<td>ASME B 16.5 150 lbs. 8”</td>
<td>ASME B 16.5 150 lbs. 8”</td>
<td>ASME B 16.5 150 lbs. 10”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elbow (optionally)</td>
<td>G4” Male thread</td>
<td>G4” Male thread</td>
<td>G5” Male thread</td>
<td>G5” Male thread</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Max. op. pressure</td>
<td>16 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.firedos.com
## 2. SPECIFIC TECHNICAL DATA.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Swivelling range</td>
<td>Horizontal 350° / vertical ±90° at smallest connecting flange each; ±90° / ±80° at largest connecting flange each</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swivelling speed (H – Horizontal, V – Vertical)</td>
<td>H 11'/s // V 10'/s</td>
<td>H 11'/s // V 10'/s</td>
<td>H 8'/s // V 10'/s</td>
<td>H 6'/s // V 7'/s</td>
<td>H 6'/s // V 7'/s</td>
<td>H 6'/s // V 7'/s</td>
<td>H 2'/s // V 2'/s</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>Optionally 380 V AC / 50 Hz, 400 V AC / 50 Hz, 415 V AC / 50 Hz, 440 V AC / 60 Hz, 460 V AC / 60 Hz, 480 V AC / 60 Hz, 500 V AC / 50 Hz // 3-phase each</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption per drive</td>
<td>1.3 A</td>
<td>1.3 A</td>
<td>2.5 A</td>
<td>2.5 A</td>
<td>2.5 A</td>
<td>2.5 A</td>
<td>4.0 A</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 68</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position indication</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corresponding nozzle, direct current:</td>
<td>AMPN2-DC</td>
<td>AMPN4-DC</td>
<td>AMPN8-DC</td>
<td>AMPN12-DC</td>
<td>AMPN20-DC</td>
<td>AMPN24-DC</td>
<td>AMPN40-DC</td>
</tr>
<tr>
<td>Operating voltage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current consumption Jet adjustment</td>
<td>2 A</td>
<td>2 A</td>
<td>2 A</td>
<td>2 A</td>
<td>2 A</td>
<td>2 A</td>
<td>4 A</td>
</tr>
<tr>
<td>Current consumption Ext. agent adjustment</td>
<td>2.5 A</td>
<td>2.5 A</td>
<td>2.5 A</td>
<td>2.5 A</td>
<td>10 A</td>
<td>10 A</td>
<td>10 A</td>
</tr>
<tr>
<td>Protection class</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.firedos.com
3. ADJUSTABLE MULTI-PURPOSE NOZZLE (AMPN).

The Adjustable Multi Purpose Nozzle (= AMPN) is used for the discharge of water or premix at a low foam expansion rate. The manual stepless adjustment between hollow jet and spray jet is possible also during operation. The maximum spray angle is 100°.

Stepless extinguishing agent flow rate adjustment (electrically) is also possible during operation.

The monitors’ nozzles have remote-controlled direct-current (24V DC) drives as a standard, regardless of the monitor’s drive type.

4. REACH AND REACTION FORCE.

Using the app at www.firedos.com/monitorapp, you can determine the reach curve and the reaction forces depending on your operating conditions.

**INPUT PARAMETERS**

- **MONITOR TYPE**: M1
- **NOZZLE TYPE**: MPN

The multi-purpose nozzle (AMPN) is used to discharge either water or premix at a low expansion rate. Stepless adjustment between hollow jet and spray jet is possible.

**OUTPUT PARAMETERS**

- **Flow rate**: 500 l/min
- **Pressure**: 12 bar
- **Angle**: 60°
- **Medium**: Water, Foam

Height in m

Reach in m

Reach: 47 m
Jet Reaction Force: 2 kN
Throw Height: 28 m

www.firedos.com
## 5. DIMENSIONS.

<table>
<thead>
<tr>
<th>Model</th>
<th>Length L (mm)</th>
<th>Width W (mm)</th>
<th>Height H (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2-ACXXX-XX / AMPN2-DC</td>
<td>885</td>
<td>660</td>
<td>515</td>
<td>76</td>
</tr>
<tr>
<td>M3-ACXXX-XX / AMPN4-DC</td>
<td>990</td>
<td>685</td>
<td>515</td>
<td>102</td>
</tr>
<tr>
<td>M4-ACXXX-XX / AMPN8-DC</td>
<td>1260</td>
<td>760</td>
<td>515</td>
<td>146</td>
</tr>
<tr>
<td>M5-ACXXX-XX / AMPN12-DC</td>
<td>1490</td>
<td>810</td>
<td>560</td>
<td>185</td>
</tr>
<tr>
<td>M7-ACXXX-XX / AMPN20-DC</td>
<td>1710</td>
<td>970</td>
<td>620</td>
<td>265</td>
</tr>
<tr>
<td>M7-ACXXX-XX / AMPN24-DC</td>
<td>1810</td>
<td>970</td>
<td>620</td>
<td>275</td>
</tr>
<tr>
<td>M9-ACXXX-XX / AMPN40-DC</td>
<td>2215</td>
<td>1200</td>
<td>890</td>
<td>700</td>
</tr>
</tbody>
</table>
6. MATERIALS.
- Cast aluminium AISI7Mg 0.3 with HC and powder coating
- AlMgSiMg 0.3 with HC and powder coating
- Stainless steel V2A and V4A
- NBR
- Powder coating Red (RAL 3020) as a standard

7. SPECIAL EQUIPMENT OPTIONS.
- Controls
- Swivelling unit to move between work and rest position

8. MANUFACTURER.

FireDos GmbH, Auf der Kaulbahn 6, 61200 Woelfersheim, Germany
Phone +49 (0) 6036 9796-0, Email: info@firedos.de

We reserve the right to make modifications at any time.
All figures are approximate and subject to the particular version/equipment.