R4.1 R7.1

Hardware racks

Data sheet



1. Multi-line 300

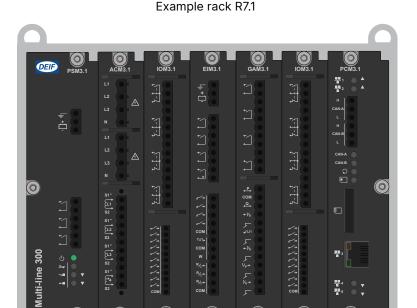
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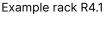
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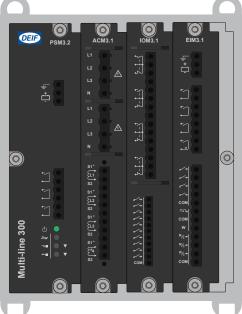
1. Multi-line 300

1.1 About the hardware modules

The Multi-line 300 (ML 300) hardware modules are printed circuit boards that slot in to either a rack R7.1 or rack R4.1. Depending on the type of module, they can provide measurement connections, inputs, outputs and communication indicators.







The hardware modules feature:

- Placement flexibility in the rack.
- Remove, replace, or add on-site.
- · Automatically recognised.
- Configurable input and output functions (digital and analogue):
 - Digital input functions: Commands from operators or 3rd party equipment, changing configuration, operating information.
 - Digital output functions: Alarm status, commands to 3rd party equipment, operating information.
 - · Analogue input functions: External set points, operating information, supervised binary inputs.
 - Analogue output functions: Regulation *, operating information.

NOTE * Only available on certain types of controller.

All slots must be covered during operation and blind modules can be used to cover unused slots.

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2. Technical specifications

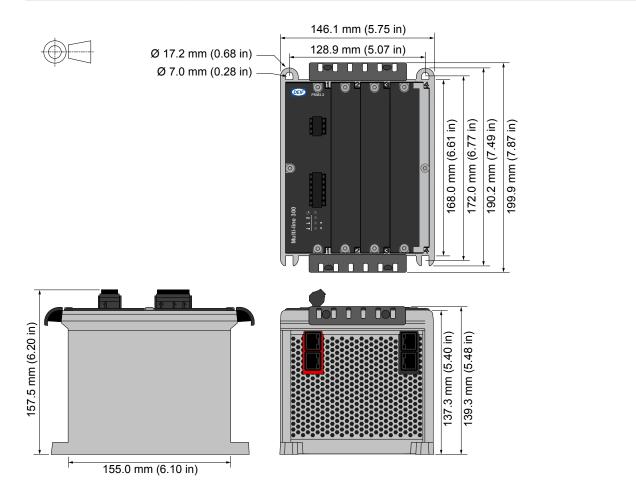
2.1 Rack R4.1

Rack R4.1 technical specifications

| Category | Specification |
|--------------------|--|
| Ingress protection | IP20 (all slots must have modules or blind modules mounted) according to IEC/EN 60529 |
| UL/cUL Listed | Type Complete Device, Open Type 1 |
| Material | Rack frame: Aluminium |
| Mounting | Base mount, using four M6 bolts with self-locking washers (or self-locking screws). The bolts and self-locking washers (or self-locking screws) are not included with the rack. UL/cUL Listed: For use on a flat surface of a type 1 enclosure UL/cUL Listed: To be installed in accordance with the NEC (US) or the CEC (Canada) |
| Tightening torque | Mounting bolts: 4 N·m (35 lb-in) |

Rack 4.1 dimension and weight specifications

| Category | Specification |
|------------|---|
| Dimensions | L 146.1 mm x H 199.9 mm x D 157.5 mm (5.75 in x 7.87 in x 6.20 in) (outer frame, includes cable strain relief plates) |
| Weight | Without any hardware modules: 994 g (2.2 lb) |



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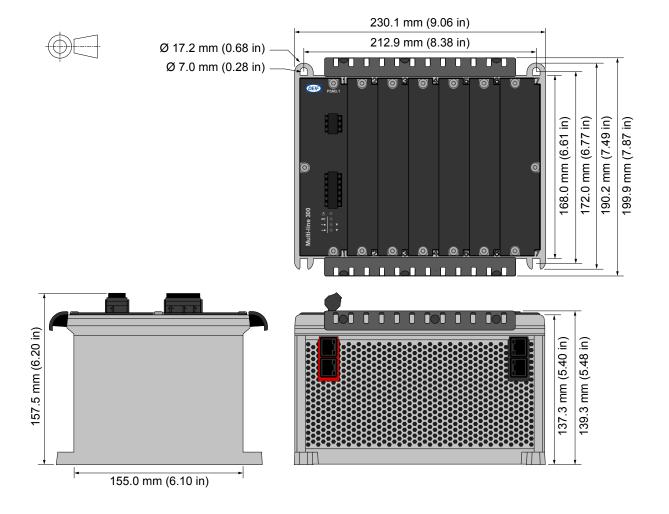
2.2 Rack R7.1

Rack 7.1 technical specifications

| Category | Specification |
|--------------------|--|
| Ingress protection | IP20 (all slots must have modules or blind modules mounted) according to IEC/EN 60529 |
| UL/cUL Listed | Type Complete Device, Open Type 1 |
| Material | Rack frame: Aluminium |
| Mounting | Base mount, using four M6 bolts with self-locking washers (or self-locking screws). The bolts and self-locking washers (or self-locking screws) are not included with the rack. UL/cUL Listed: For use on a flat surface of a type 1 enclosure UL/cUL Listed: To be installed in accordance with the NEC (US) or the CEC (Canada) |
| Tightening torque | Mounting bolts: 4 N·m (35 lb-in) |

Rack 7.1 dimensions and weight specifications

| Category | Specification |
|------------|---|
| Dimensions | L 230.1 mm x H 199.9 mm x D 157.5 mm (9.06 in x 7.87 in x 6.20 in) (outer frame, includes cable strain relief plates) |
| Weight | Without any hardware modules: 1330 g (2.9 lb) |



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3. Legal information

3.1 Disclaimer and copyright

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