

3.1.1 Dimensions and mounting depth

The racks are designed for 19" rail mounting. Figure 3-1, 3-2 and 3-3 show the DRA 01, DRA 02, DRA 03 and DRA 04 rack dimensions **without modules and without connected cables**.

DRA 01	10 slots	for non-redundant systems
DRA 02	10 slots	for redundant systems
DRA 03	3 slots	for redundant systems
DRA 04	5 slots	for redundant systems

Rack model DRA 01 has been **replaced with model DRA 02**, and is no longer available.

The DRA 01 and DRA 02 racks are 482.6 mm (19") wide. The total height is 341 mm (13.43" or 7.7 HU).

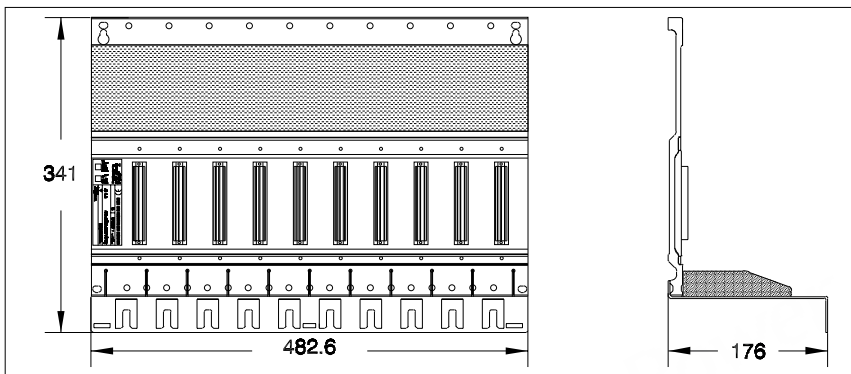


Fig. 3-1 Dimensions of DRA 01 and DRA 02 racks in mm

The rack DRA 03 is 171.8 mm (6.76") wide.

The total height is 341 mm (13.43" or 7.7 HU).

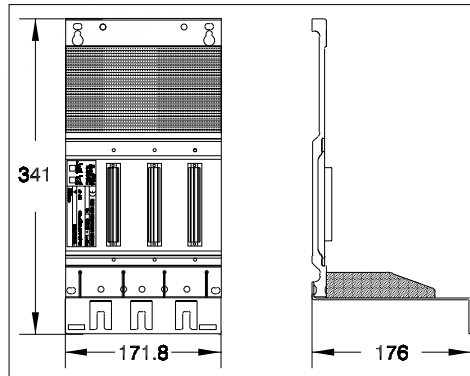


Fig. 3-2 Dimensions of DRA 03 rack in mm

The rack DRA 04 is 260.6 mm (10.26") wide.

The total height is 341 mm (13.43" or 7.7 HU).

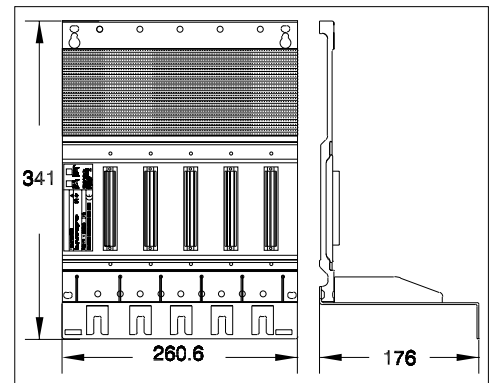


Fig. 3-3 Dimensions of DRA 04 rack in mm

Plugged-in modules and connected cables **increase the depth** of the complete rack to **approx. 340 mm, when using the NA 00x AUI cable.**

Without the AUI cable the mounting depth is approx. 260 mm.

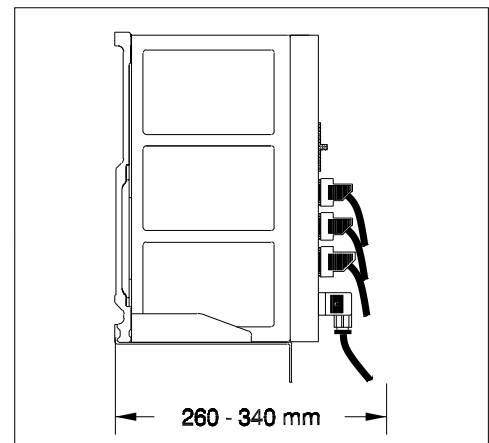


Fig. 3-4 Mounting depth of the rack

4.2.2.1 Scaling process station bus

The DigiNet P process station bus consists of three CAN buses run in parallel. Freelance 2000 makes a distinction between transmission over

- distances up to 80 m at a baud rate of 500 kBit/second
- distances up to 400 m at a baud rate of 100 kBit/second

The total cable length of DigiNet P is calculated as described below:

- for 500 kBit/sek 80 m - 2 m x number of link modules
- for 100 kBit/sek 400 m - 2 m x number of link modules
- 20 m x number of DSU 07 cables

Example: Central unit and two I/O units, transmission at 500 kBit/sek
Max. length 80 m – 3 x 2 m= 74 m

Within the racks (central unit and I/O unit) the CAN buses are connected to the individual slots as shown in the tables below:

Rack DRA 02

CAN bus	Slot	I/O boards	Primary/Secondary	Gateway CPU
1	A, 0 .. 8	0, 3, 6 ¹	0 ... 8	0 ... 8
2	A, 0 .. 8	1, 4, 7	0 ... 8	0 ... 8
3	A, 0 .. 8	2, 5, 8	0 ... 8	0 ... 8

Rack DRA 03

CAN bus	Slot	I/O boards	Primary/Secondary	Gateway CPU
1	A, 0, 1	0 ¹	0, 1	0, 1
2	A, 0, 1	-	0, 1	0, 1
3	A, 0, 1	-	0, 1	0, 1

¹ Slot 0 only in I/O units