IOCHAS-0001R

IO chassis for redundant IO modules (Safety Manager)

Description

The IOCHAS-0001R is a chassis for up to 9 pairs of redundant IO modules.

It consists of the following components:

Table 12 Components of the FS-IOCHAS-0001R[1] V1.0

Component	Amount	Description	See
IO housing	1	19 inch mechanical case including cover plates for up to 18 IO modules	page 108
FS-IOB-0001R[1]	1	IO Backplane for redundant IO	page 109
FS-IO-0001[1] V1.0	2	IO Extender modules, slot 20 and 21	page 479
FS-IOBUS-HBR[1] V1.0	1	Horizontal IO bus backplane for redundant IO	page 113
Blind front	1	Located at slot 19	

1   FS-type modules are non conformal coated modules.

Table 13 Components of the FC-IOCHAS-0001R[1] CCV1.0

Component	Amount	Description	See
IO housing	1	19 inch mechanical case including cover plates for up to 18 IO modules	page 108
FS-IOB-0001R	1	IO Backplane for redundant IO	page 109
FC-IO-0001[1] CCV1.0	2	IO Extender modules, slot 20 and 21	page 479
FC-IOBUS-HBR[1] CCV1.0	1	Horizontal IO bus backplane for redundant IO	page 113
Blind front	1	Located at slot 19	

1   FC-type modules are conformal coated modules. Conformal coated modules have the letters 'CC' preceding the version number.
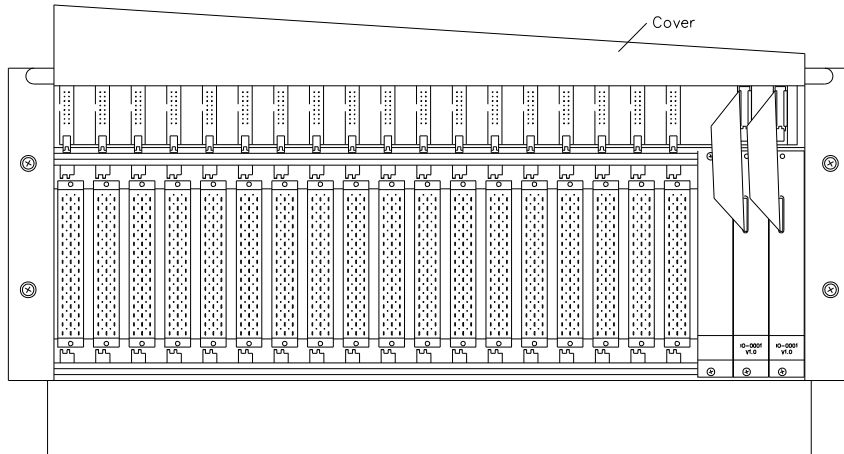
Figure 55 Front view of an empty IOCHAS-0001R

Figure 55 on page 108 shows the front side of an empty IOCHAS-0001R with the front cover raised.

A 19" chassis has 21 slots for modules (each 4TE wide). These slots are numbered 1 to 21, starting at the left-hand side of the chassis. In the IOCHAS-0001R, slots 1 to 18 are available for IO modules. They are configured in pairs.

The IO modules in the odd numbered slots (and the IO-0001 in slot 20) are controlled by Control Processor 1.
The IO modules in the even numbered slots (and the IO-0001 in slot 21) are controlled by Control Processor 2.

Slot 19 cannot be used.

Slot 20 and slot 21 contain the IO-0001 modules.
The IOB-0001R provides the 18 IO-connectors in the middle of the chassis.
The IOBUS-HBR provides the 18 flatcable-connectors in the top of the chassis.

IO Housing

The IO housing is specifically designed for Safety Manager.

It is a 19" based housing.

A cover plate assembly at the front of the chassis shields the flatcables of the IO modules. This cover can be swung upwards to access the flatcables. To swing the cover upwards, unlock it by moving the two locking slides horizontally towards

the middle of the chassis. The backside of the IO cover assembly provides room for a tag number assignment drawing.

The backside of the IO housing is covered by an IO back cover plate that can be removed by rotating the half-turn locking screw anti-clockwise (see Figure 56 on page 109).

Figure 56 Back view of a closed IOCHAS-0001R
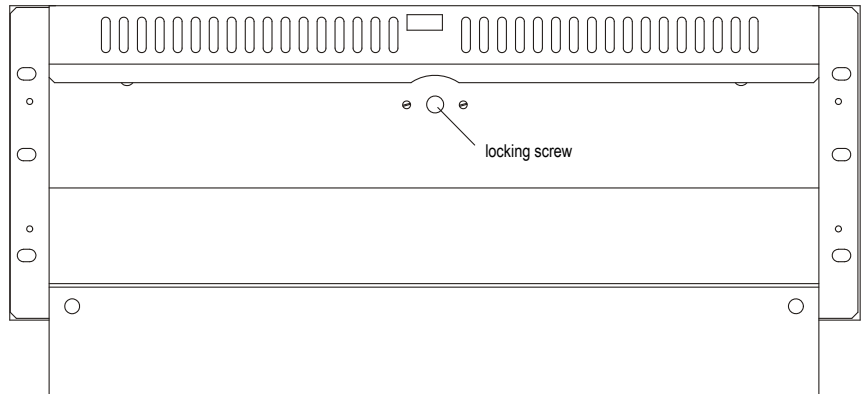
⚠️ **Attention**

The IO back cover plate will be completely removed from the IO chassis after the locking screw has been turned. Be careful not to drop it.

IO cable clamp support (with tie wrap) at the back of the IO housing leads all cables towards the side of the IO chassis.

Figure 61 on page 114 shows a side view of the IOCHAS-0001R.

IO Backplane for redundant IO: IOB-0001R

The front of the IOB-0001R backplane is visible in the middle of Figure 55 on page 108.

Figure 57 on page 110 shows the back of the IOCHAS-0001R with the back-cover removed.

Table 14 on page 110 describes the connectors on the IOB-0001R.