

Replacing the OP500 CRT Monitor by the Monitor Unit FSU202

General Hints

The Monitor Unit FSU202 (item number 118.306.165) replaces the CRT monitors of the operating stations OP500 (item numbers 729.150.06, 729.150.061, and 729.150.062) and OP500A (item number 729.150.262). The CRT monitors with the following item numbers can be replaced:

118.306.061
118.306.062
118.306.063
118.306.064

Scope of Delivery

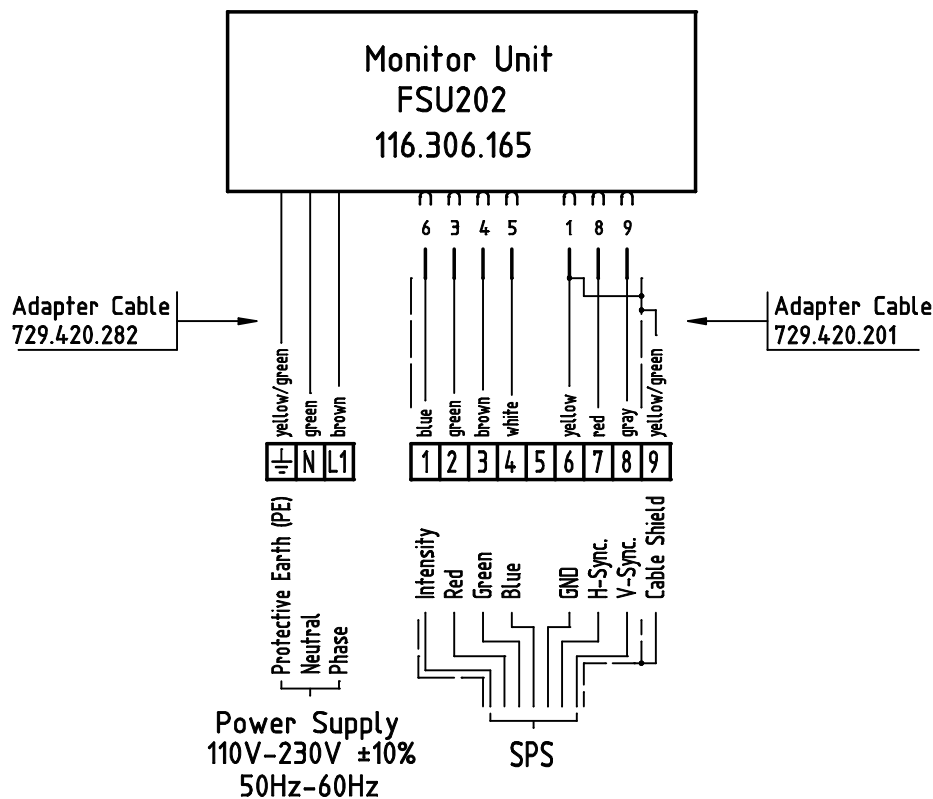
Count	Item Number	Description
1pc.	118.306.165	Monitor Unit FSU202
1pc.	729.420.201	video adapter cable
1pc.	729.420.282	power supply adapter cable, already connected to the power supply of the Monitor Unit FSU202

Installation Instructions

1. Demount the panel front from the chassis. Therefore, unscrew the six hexagon screws at the front.
2. Remove the cover of the CRT monitor and the mounting brackets of the cover. Both is no more used.
3. Unscrew the four screws that are used to mount the monitor on the chassis. Remove the CRT monitor from the chassis.
4. Remove the shielding shroud located under the CRT monitor. Remove the distance profiles, that are bonded on the cross bar. The shielding shroud and the profiles are no more used.
5. Depending on the type of the previously installed CRT monitor, the installation height of the flat screen must be adjusted. Therefore, corresponding to the CRT monitor, the lower, central, or upper mounting holes at the chassis of the FSU202 must be used. The installation height can be determined by use of the item number or the serial number of the OP500/OP500A:

Item Numbers	Serial Numbers	Installation Height
729.150.06	22754, 22790, 22999	upper
729.150.061	23006 to 25601	central
729.150.062, 729.150.262	starting from 25746	lower

6. Mount the Monitor Unit FSU202 at the cross bars. Therefore, use the provided screws (M4 or M5).
7. Remount the panel front at the chassis.
8. Connect the 9-pin D-sub connector of the video adapter cable 729.420.201 to the FSU202 and screw it. According to the connection diagram at page 4, solder the free wires of the adapter cable to the clamp rail. Remove a maybe present connection between pin 9 of the clamp rail and the housing! Therefore, please read the hints on page 4.
9. According to the connection diagram at page 4, connect the free wires of the power supply adapter cable 729.420.282 to the clamp rail.
10. The clamp rail block can be mounted at the front or rear cross bar.

Connection Diagram:


The shielding of the monitor cable (Cable Shield) between the clamp rail block and the PLC must be connected to ground (0V /GND) at both ends. It is not allowed to connect it with the protective earth of the OP500, PLC, or the facility (PE). It is not allowed to have a direct connection between ground (0V/GND) and PE:

- Pin 9 at the clamp rail block is not allowed to be connected to PE. It is solely connected to GND by adapter cable 729.420.201.
- At the PLC, the shielding of the monitor cable is not allowed to be connected to connector X6. It is only allowed to connect it solely to pin 1 (0V), and not to the connector housing.