



P-Plus mounting and installation guide

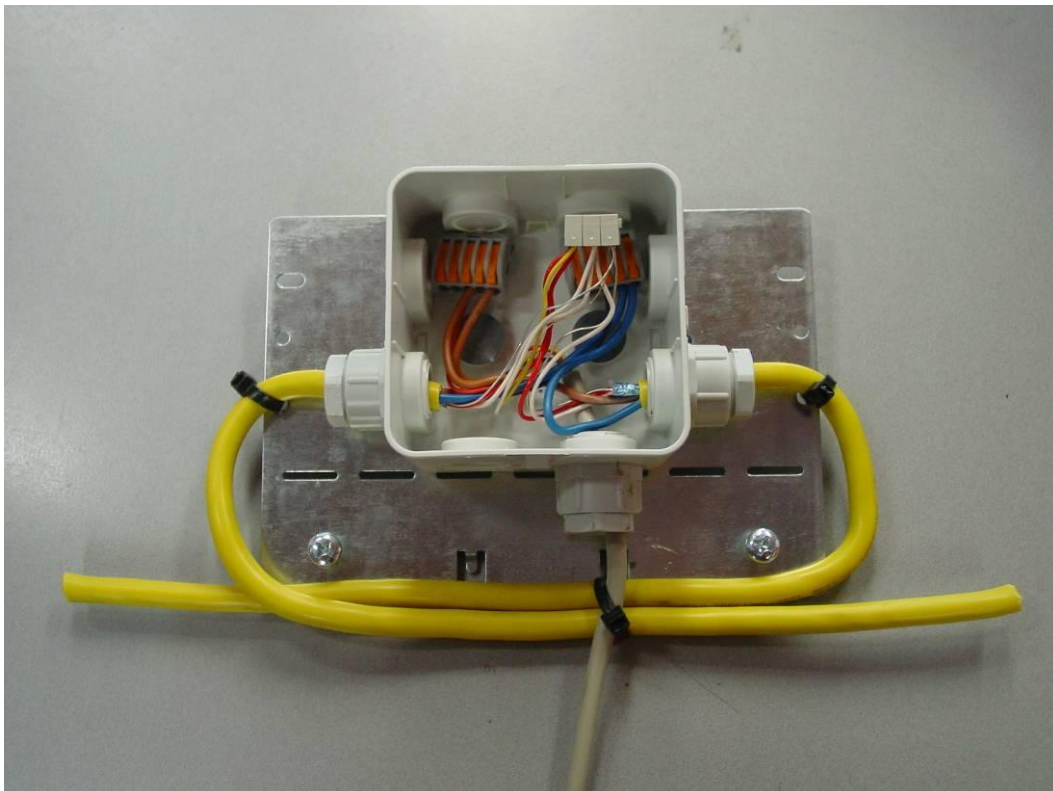
Required materials per 10 terminal holders

You will need the following materials for every 10 terminal holders to be installed.

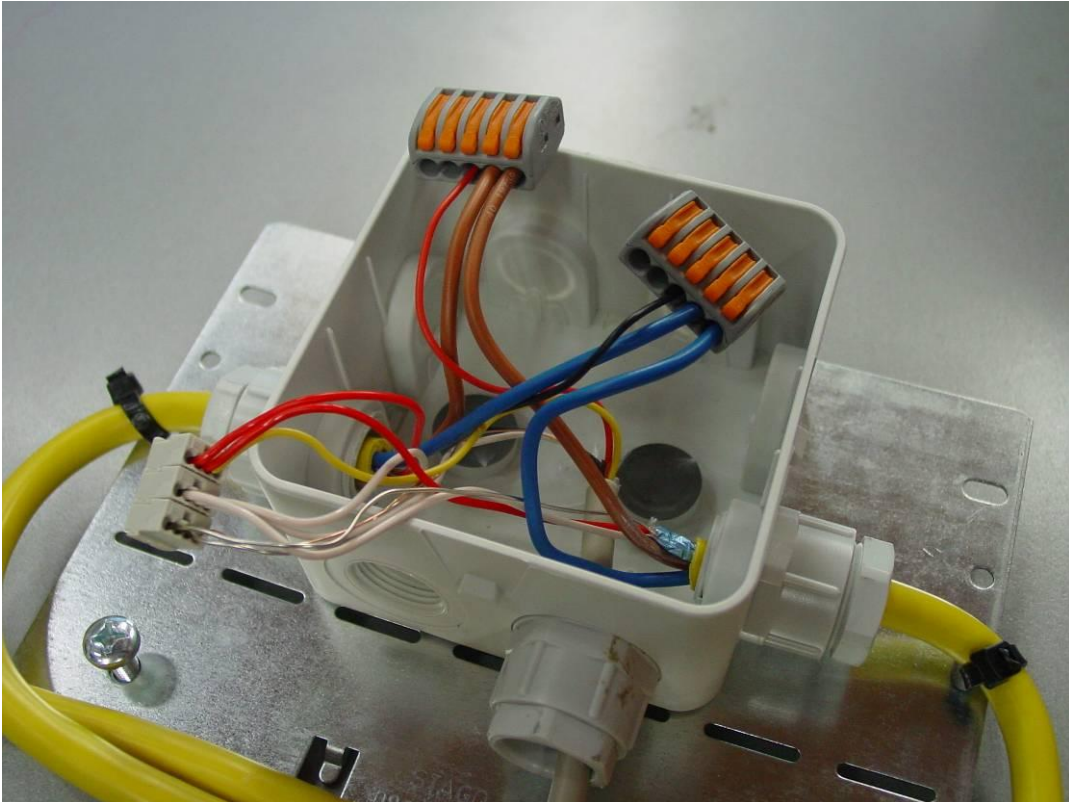
- 10x cable box, AK 2280 Attema IP65. These are installed in the cable gutter and connect the terminal holders to the main cable.
- 20x Wago terminal blocks (large) for 2.5mm cables, with at least 3 cores. These connectors are used to connect the power cable to the terminal holders.
- 30x Wago terminal blocks (small) for 0.8mm cables, with at least 3 cores. These connectors are used to connect the data and shielding cables to the terminal holders.
- 10x quick mounting plate, 2x set STA. These metal plates are attached to the gutter and are used to mount the cable boxes.
- 40x hexagonal tap bolt, M6x16. These bolts and the nuts described below are used to attach the mounting plates to the gutter and the cable boxes to the mounting plates.
- 70m of shielded telephone cable, 2x2x0.8 VDE 0815. This telephone cable runs from the gutter to the terminal holders. It is assumed that the distance from the cable gutter to the mounting plates of the terminal holders is 4m.
- 40m pipe, 16mm white. This impact-resistant pipe is used to protect the telephone cable between the cable gutter and the terminal holders.
- 40x pipe clip, 16mm white. These are used to attach the impact-resistant pipe to the glasshouse posts with the aid of the self-tapping screws described below.
- 40x hexagonal self-tapping screw, 4.8x25
- 250x cable ties, black. These ties are used to secure the cable in the gutter at each junction box and the terminal holders.
- 20x hexagonal self-tapping screw, 6.3x32. These are used to fasten the mounting brackets of the terminal holders to the glasshouse posts.



The junction boxes are mounted to the cable conduit at each connection point with the aid of quick mounting plates. The grey cable is connected to a terminal; the yellow cable is installed in the cable conduit and is the main cable.

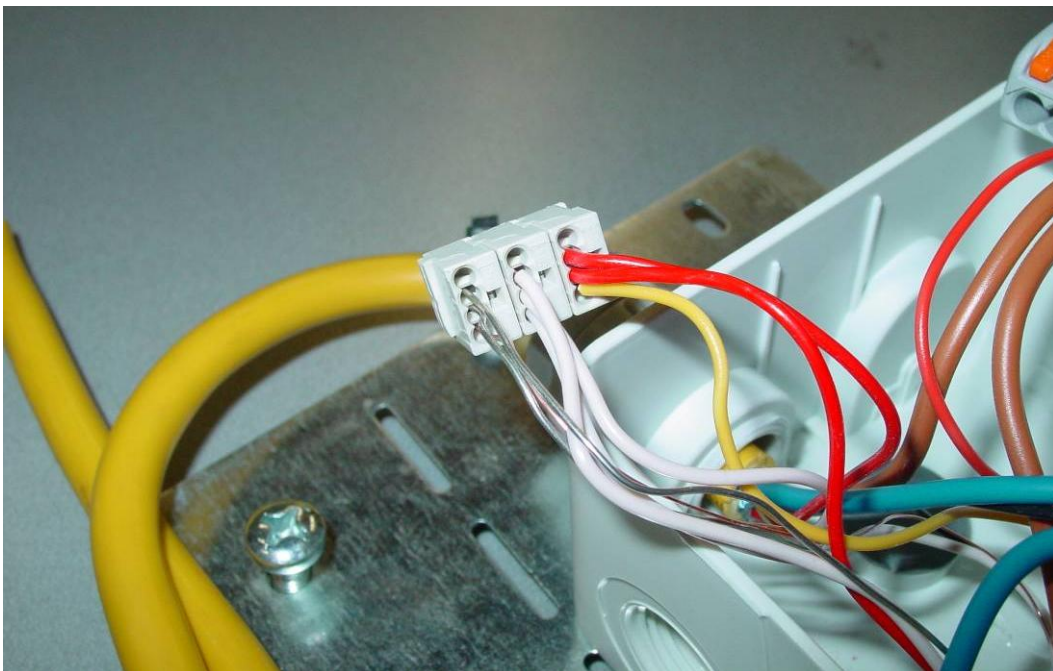


Install the yellow cable as shown above to relieve strain on the cable. Use the cable ties to secure the cable.



Power supply: The yellow cable consists of 2x2.5 and 2x0.8 power supply wires + shielding. The grey cable consist of 4x0.8 wires + shielding. Connect the 24V and 0V power supply wires to the wago terminal blocks according to the table below:

	24V	0V	S-	S+
grey	red	black	white	yellow
yellow	brown	blue	white	red



Signal: Connect S+ and S- to the small wago terminal block according to the table above.



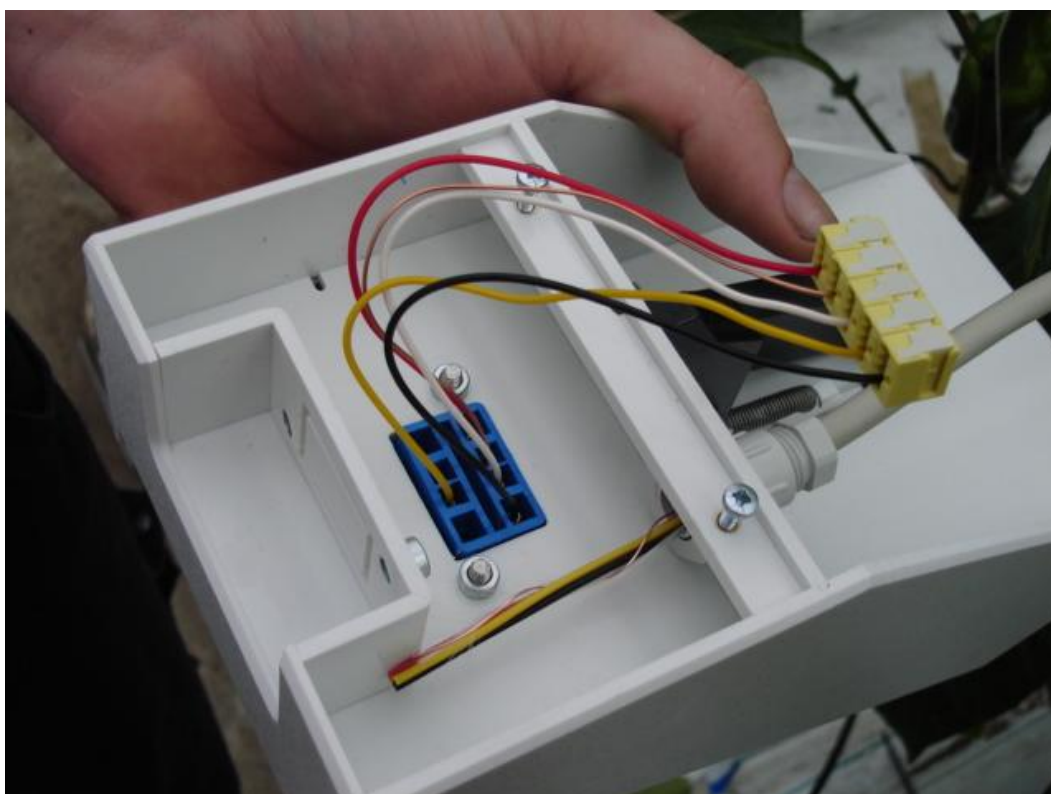
Attach the aluminium mounting brackets to the posts using the hexagonal self-tapping screws (6.3x32), at a height of approx. 1.15 metres, or a different height depending on the wishes of the customer.



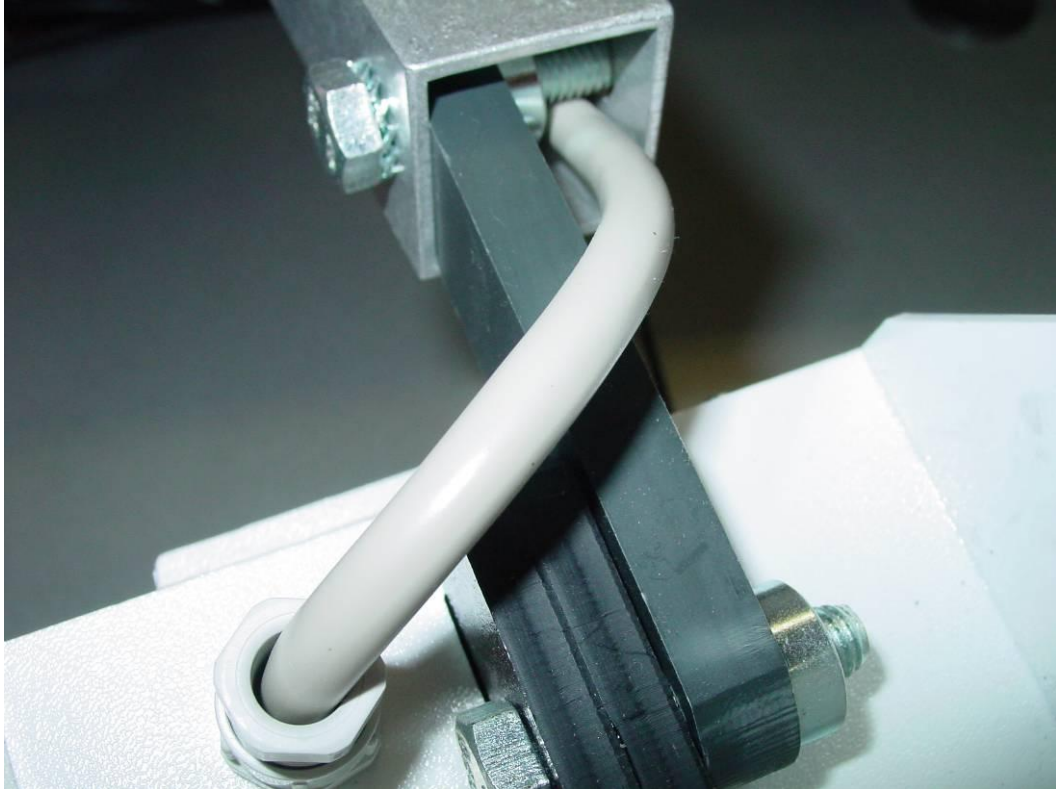
Feed the grey cable through the mounting bracket, if possible. Make sure the cable is of sufficient length, so that the bracket will slide firmly into place. Secure the cable with the cable ties.



Terminal holder



Feed the grey cable through the gland nut and tighten the nut firmly. The wago terminal blocks have been pre-fitted in the terminal holders. The colours of the wires match the colours in the grey cable supplied by HortiMaX.



Use the M8 bolts to fasten each terminal holder with the black strip and wedge pin. The bolts and strips are included with the terminal holders.



Install each terminal holder, so it is placed securely in an upright position and cannot move.



The mobile weighbridges do not need to be installed. We recommend using terminal holders with an additional connector in the glasshouse, so that you will not need to replace the existing terminal if you decide to connect a weighbridge.



Connect the cabinet of the fixed weighbridge to the Captor network using the yellow cable..



Shown above is a MetaZet countersunk weighbridge. The trolley recognition aerial is visible in the foreground. Given its range, the location of the aerial is very important



Shown above is a fixed weighbridge. The frame is fitted to the existing internal transport system. The position of the weighbridge is very important, since the trolleys need to be able to stand still for 5 seconds so they can be weighed.



Shown above is the harvesting trolley monitor. The monitor is installed near a weighing station. In this photo, the TFT monitor is attached to the frame with 2 strips. The PC is located in a cabinet below therolley conveyor.



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