

**Figure 1A.** Assembly of electrical cables in AK50 for use via RS232 with a PC or a terminal and Profibus DP simultaneously. The drawing is not to scale. The wire positioning may vary on the distribution box. The box is just an example of connecting the cables into your process measurement system and for initial testing. The second screw terminal for analog output is functional too. Its signal contents can be selected.

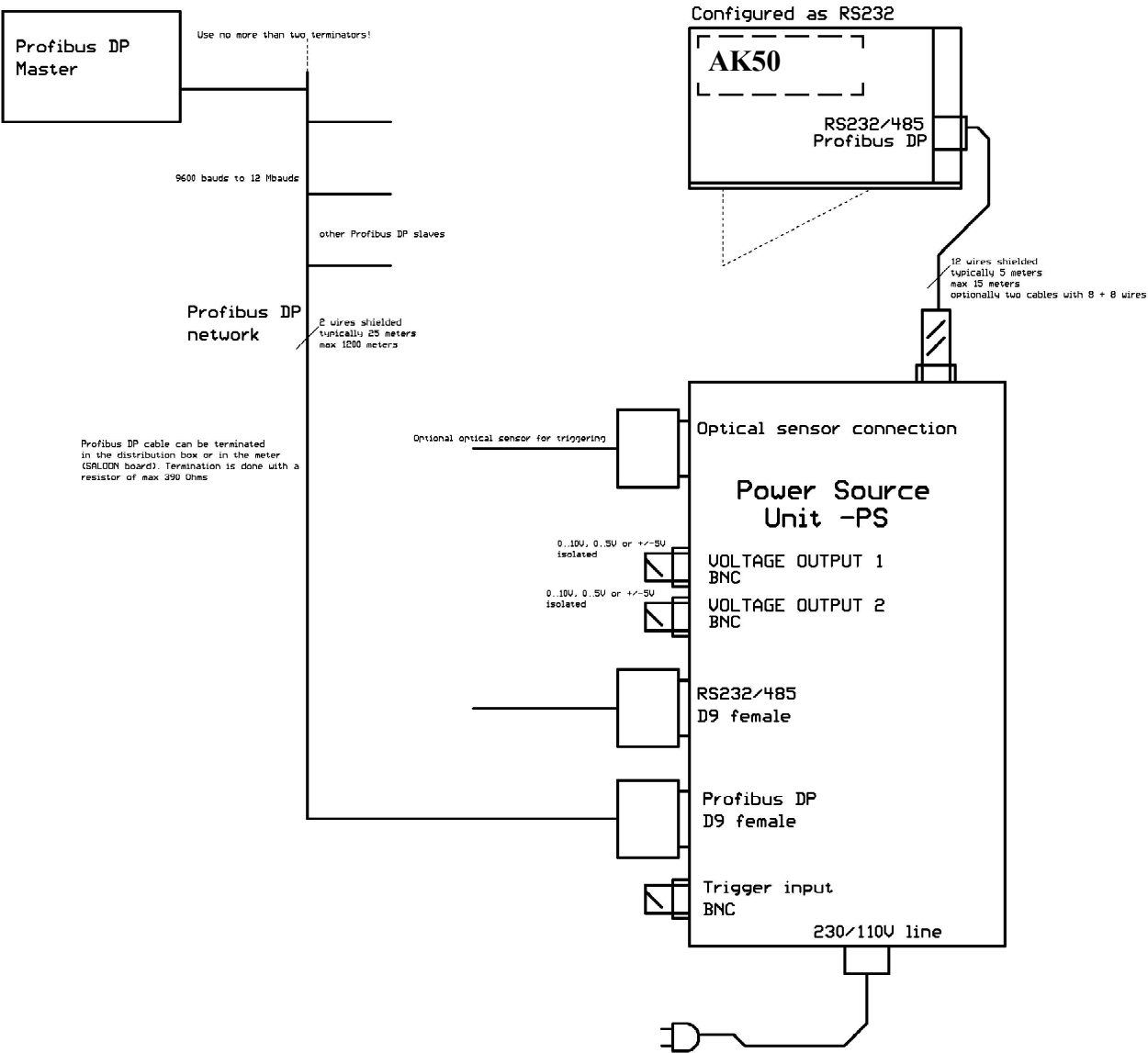
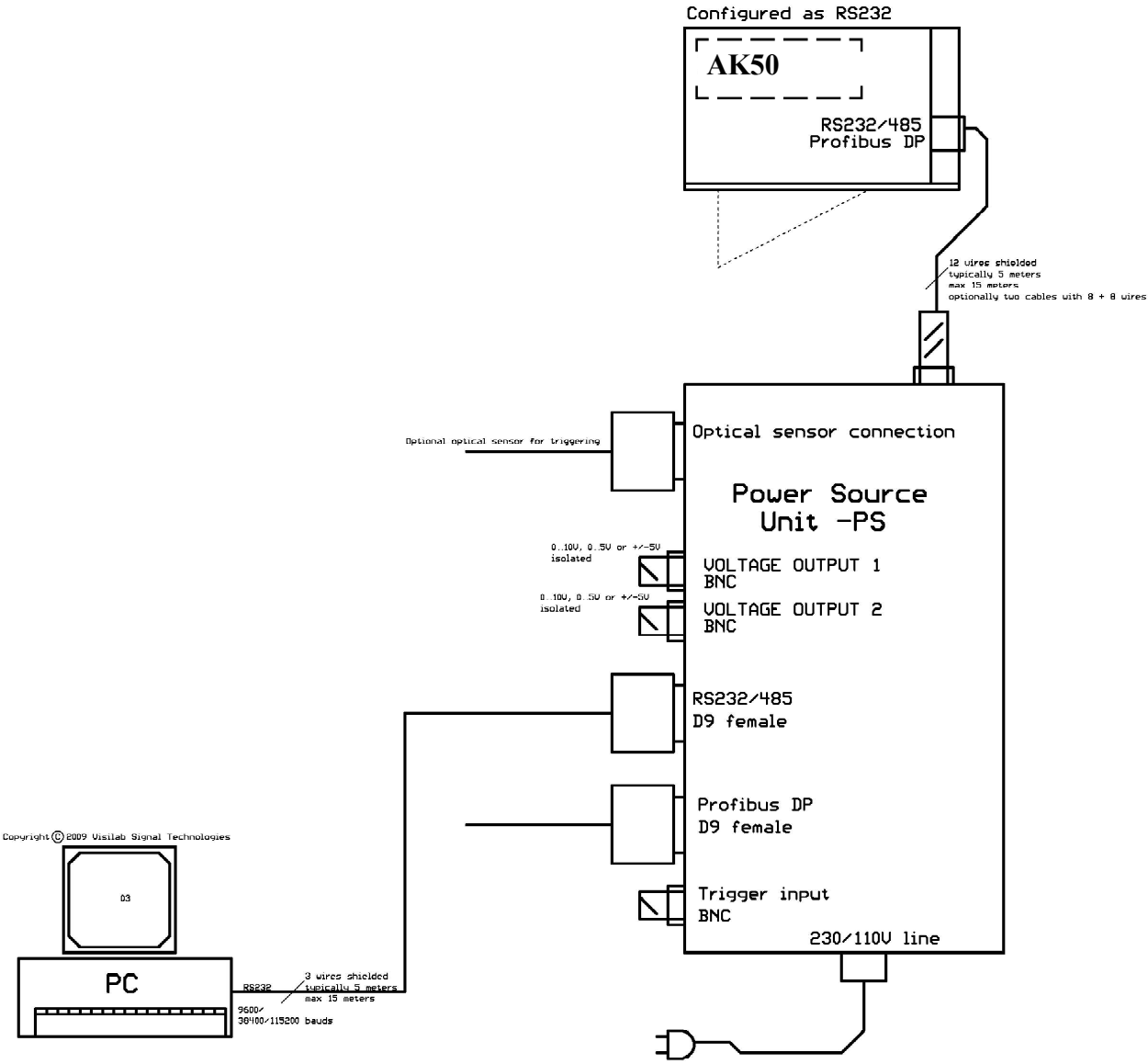
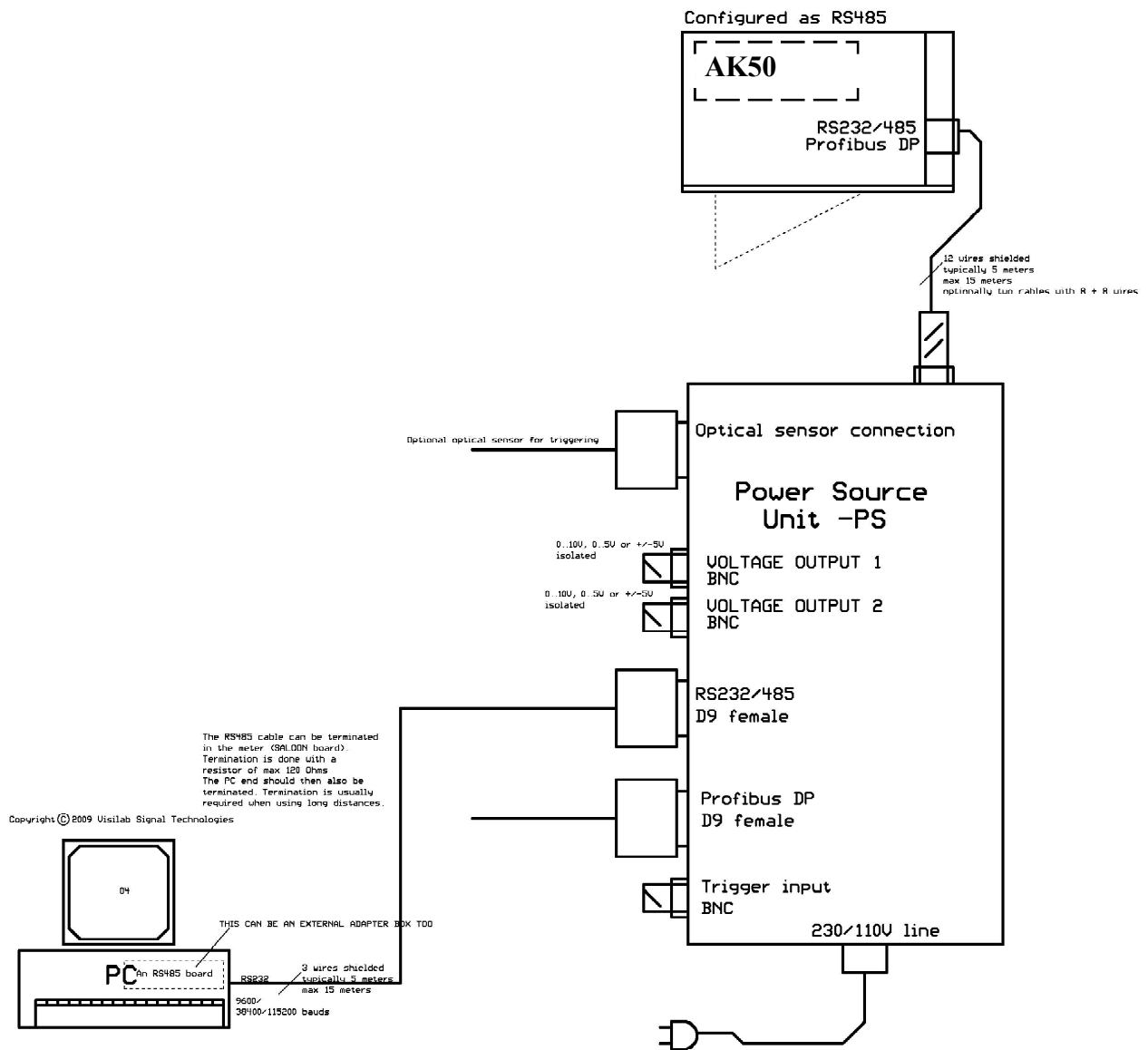


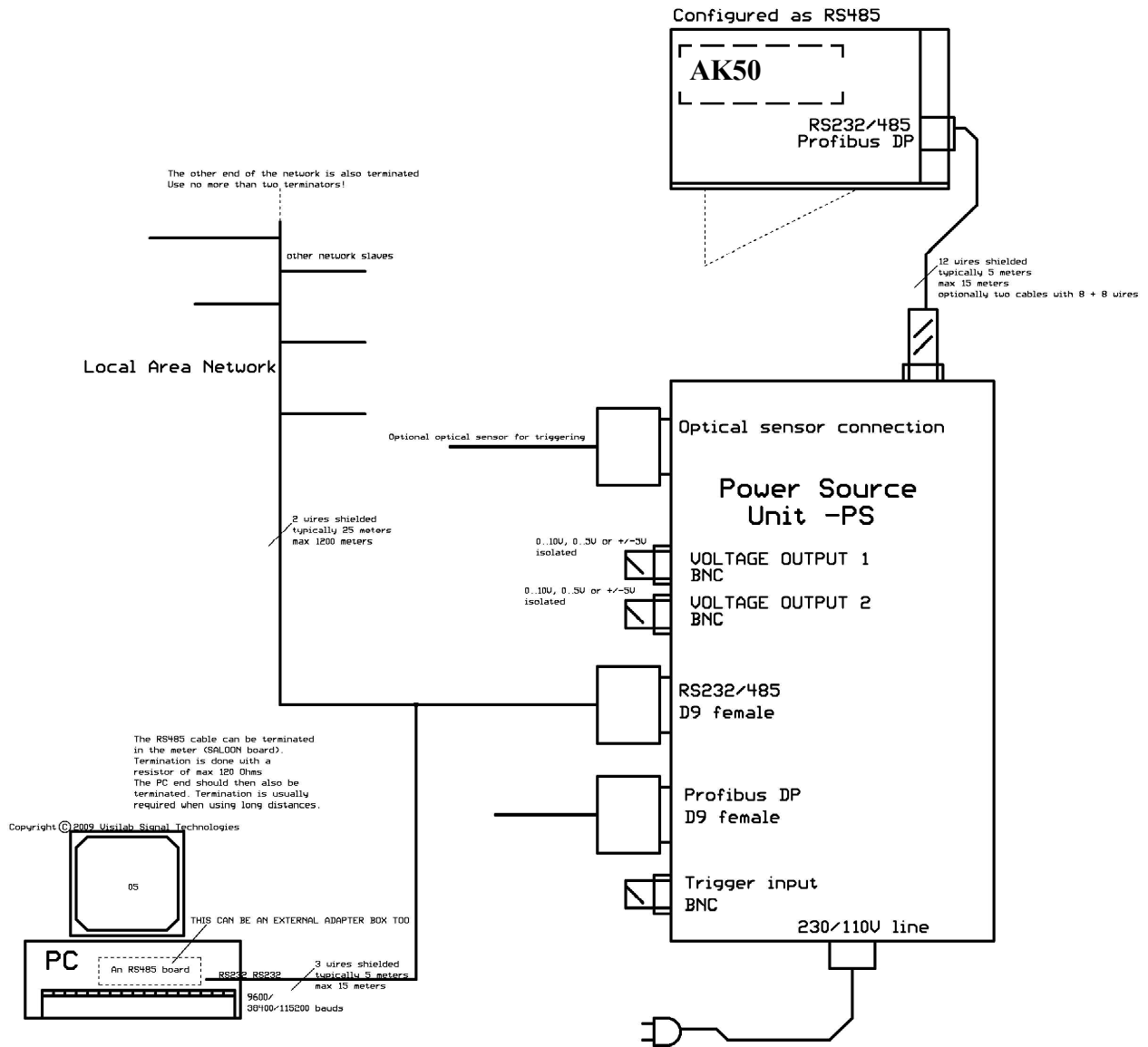
Figure 1B. Assembly of electrical cables in AK50 for use via Profibus DP only.



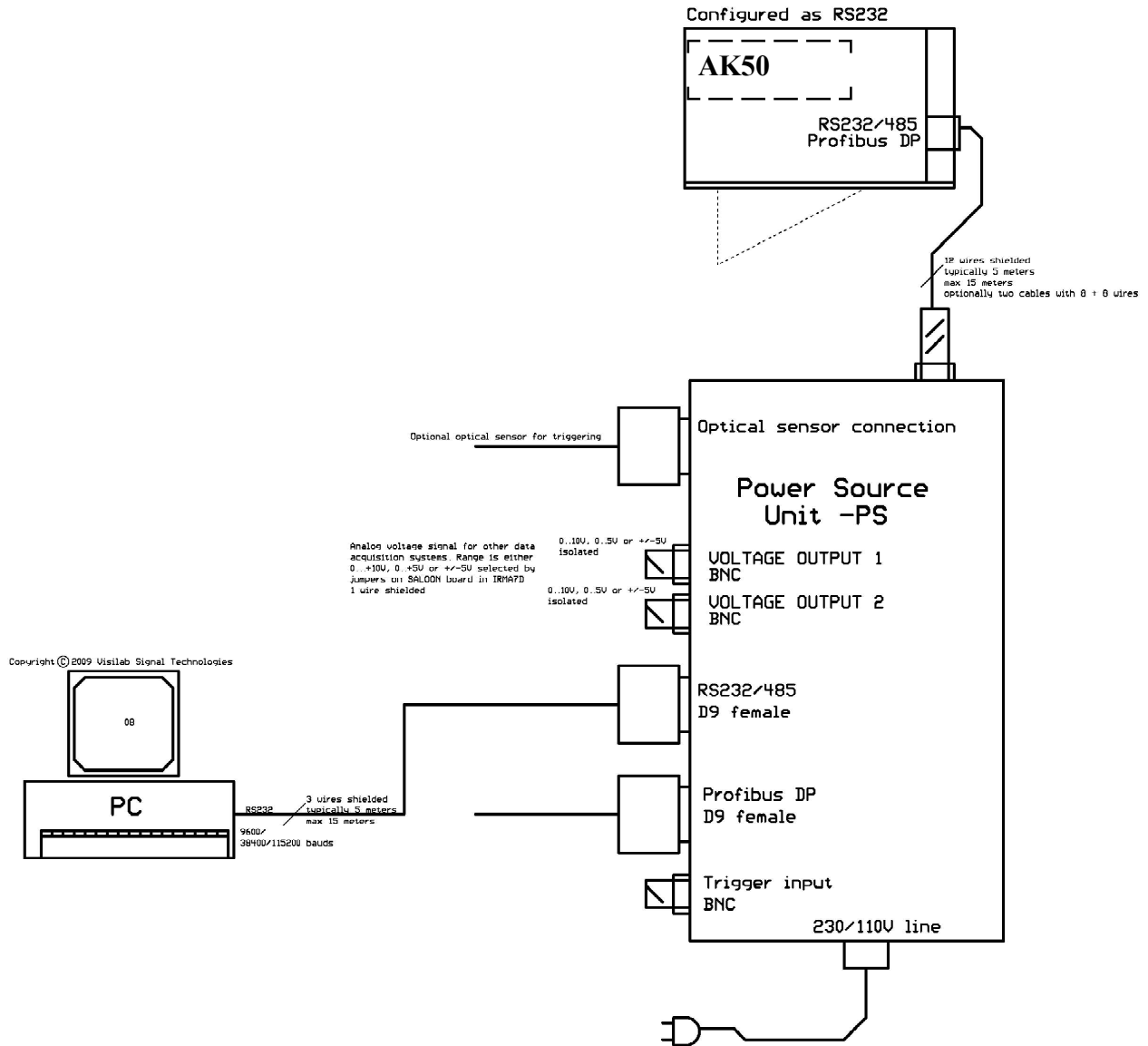
**Figure 1C.** Assembly of electrical cables in AK50 for use via RS232 at 9600/38400/115200 bauds with a PC or a terminal only. The drawing is not to scale.



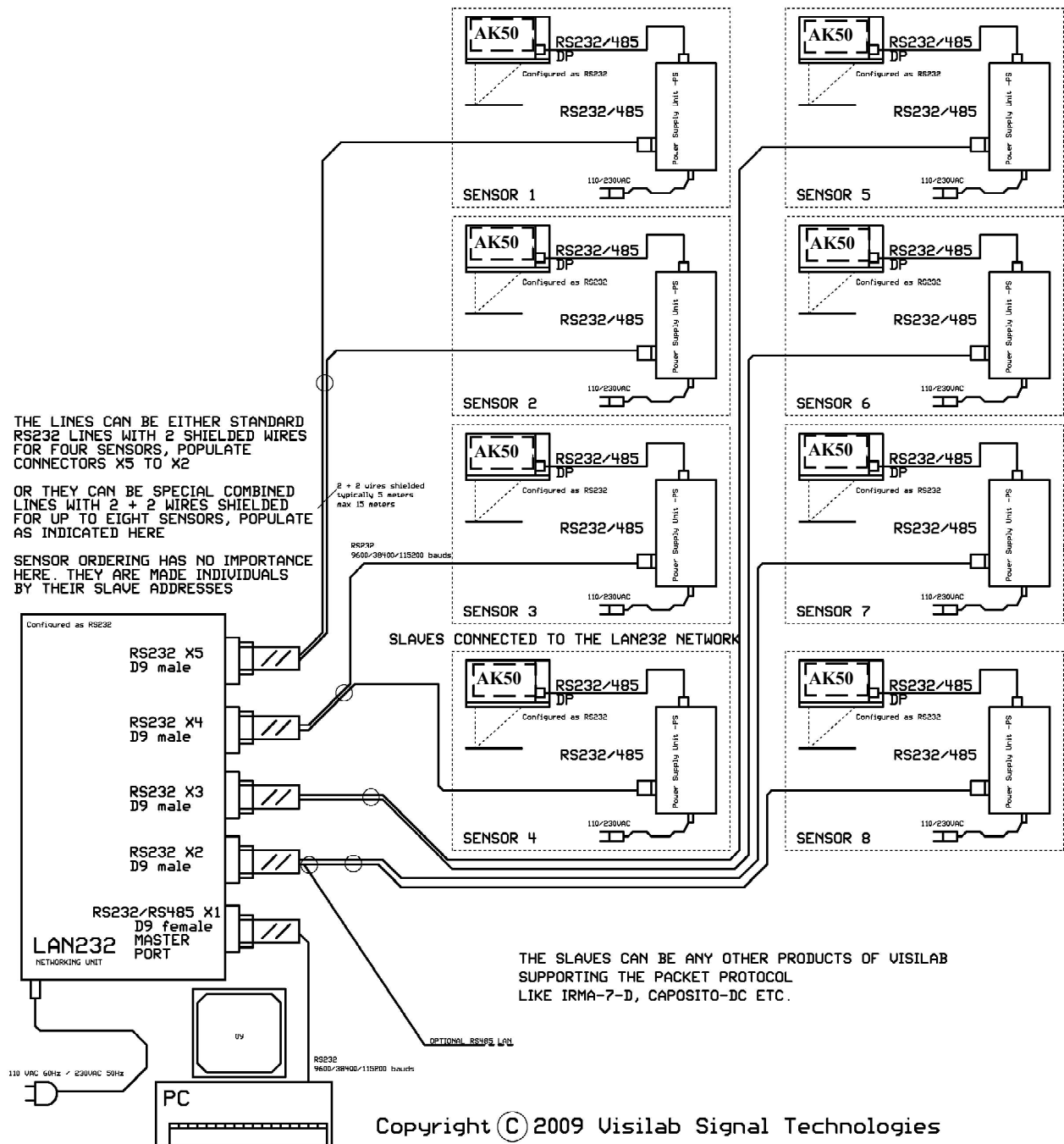
**Figure 1D.** Assembly of electrical cables in AK50 for use via RS485 with a PC or a terminal only at 9600 bauds. The drawing is not to scale.



**Figure 1E.** Assembly of electrical cables in AK50 for use via RS485 with a Local Area network (LAN) PC only. The PC works as a network Master. Note that all the AK50 meters to be attached to the LAN need to be configured for quiet booting (service menu 5 - option 7). Each slave has to have its own address (communication menu 8 - option 1). No two slaves can have the same address.



**Figure 1F.** Assembly of electrical cables in AK50 for use with external analog data acquisition systems. The cable carries the trigger input line which is optionally used for starting the autotimer. **The trigger line is normally open and only momentarily closed for action.** You can use optoswitches or mechanical switches for this. Also TTL level logic can be applied. In that case, note the ground polarity of the trigger input lines. **Refer to model -PS power supply unit's operating guide for details.**



**Figure 1G.** Assembly of electrical cables for use with **LAN232** networking unit. Each slave is wired normally with its own distribution box. The RS232 lines are used for LAN232. The Profibus DP network can be used freely as can each voltage output and trigger line. Any of the slaves can be any product of Visilab supporting the packet protocol, like AK50, AK40 etc.

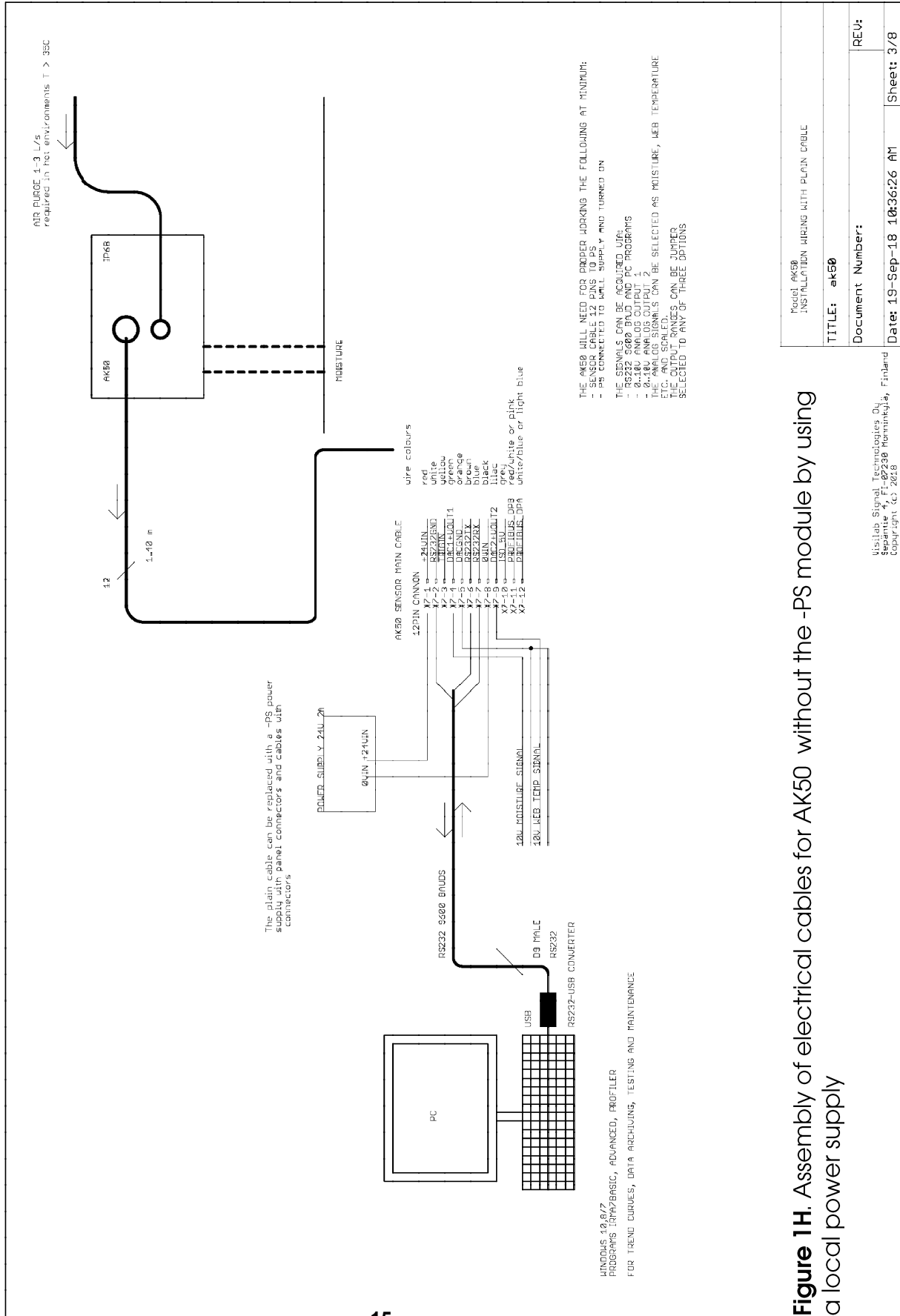


Figure 1H. Assembly of electrical cables for AK50 without the -PS module by using a local power supply



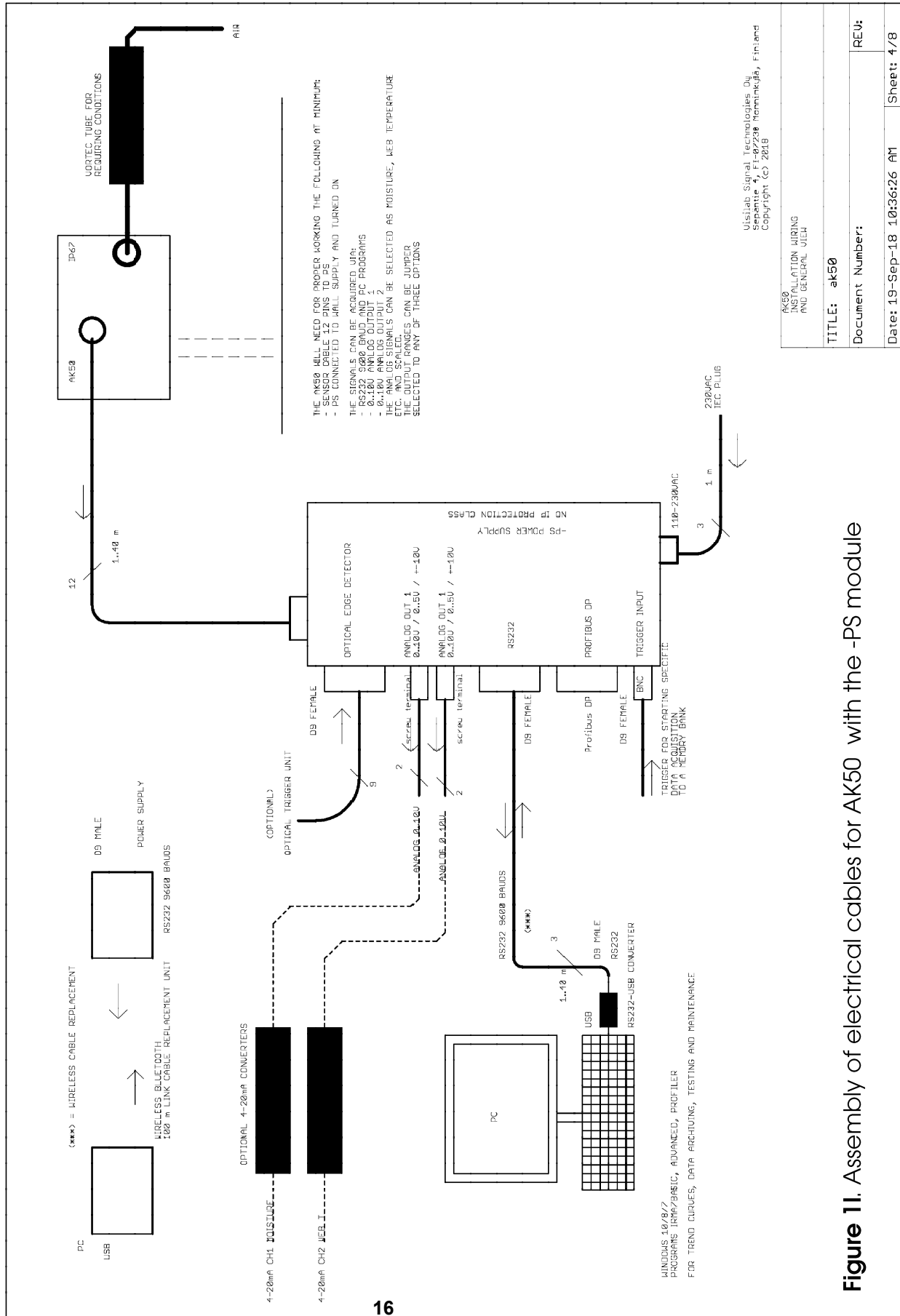


Figure 11. Assembly of electrical cables for AK50 with the -PS module