



Problems with internet – power -



Problem	Solution	Chance to have the same problem again in a new set-up/installation	Things to take care of/to check	Suggestions
Different (power) connectors in different countries	Travel plug for temporary use during installation; use of correct plugs for permanent equipment	Problem always actual	Find out which plugs are used	Use the correct plugs for permanent equipment
Short duration of battery of height worker	Rechargers on-site, recharge overnight	Problem always actual in broiler houses	Charged batteries	Try to charge battery whenever possible
Problems when setting-up wireless network connection	IT-personnel on-site during installation	Problem actual when animal house in other building than office	Manual for installation	Get advice from local IT specialist who knows the farm
No (or very bad) internet connection can be obtained with cable connection	Install 3G (or 4G) antennas	Problem actual on farms where there is no internet connection yet	Test the internet connection that is available on the farm, check if the farm-area is covered by 3G! (or 4G)	Only use 3G (or 4G) in case a solution with a cable connection is not possible
Unstable power at farm	Install UPS	Problem always actual	UPS	Install UPS when doubt
Abrupt power-off	Make sure all equipment can withstand sudden power-off, or install UPS with safe shutdown	Problem always actual	Test if equipment can withstand multiple sudden power-off situations	Make sure equipment can withstand multiple sudden power-offs (+ test that power-off during start-up of the system is also no problem)

<p>A switch was replaced, causing IP-settings to change, causing all connections with fixed IPs to fail from that point in time</p>	<ul style="list-style-type: none"> - Use DHCP instead of fixed IP-addresses - communication with local IT personnel 	<p>Problem always actual</p>	<p>Check IP settings</p>	<p>Fixed IP-addresses have a lot of advantages, the suggestion would be to use fixed IP, but inform local IT personnel that they cannot modify IP settings without letting you know well in advance.</p>
<p>PC can not deliver sufficient power for multiple (4) external USB powered hard drives on a permanent basis</p>	<p>Plugging the USB drives in the USB3.0 ports did solve the problem Use of other type (externally powered) USB drives. NOTE: placing a USB-hub with power did not solve this problem!</p>	<p>Pre-installation problem</p>	<p>Make sure PC can deliver sufficient power (+ on which ports) for the equipment that is connected to the PC</p>	<p>Make a test set-up with similar conditions, let it run for at least a few days (problems did not occur straight away, but started after a few days!)</p>
<p>Power lines can be very long in broiler houses!</p>	<p>Make sure sufficient power extension chords are on site, to go from front to back of a broiler house</p>	<p>Problem always actual in broiler houses</p>	<p>Location of power plugs, length of broiler houses</p>	<p>Make sure very long power extension chords are available on site</p>
<p>Metal box with PC equipment: door should open correct side</p>	<p>Ask farmer where he wants to place metal box, check to which side the door should open</p>	<p>Problem always actual</p>	<p>Make sure door opens to correct side</p>	<p>Ask farmer to which side door should open, or make sure door can be changed on site.</p>