PM-11 Phytomonitor

Automatic Data logging system with the wide range of optional sensors for plant research and crop growing

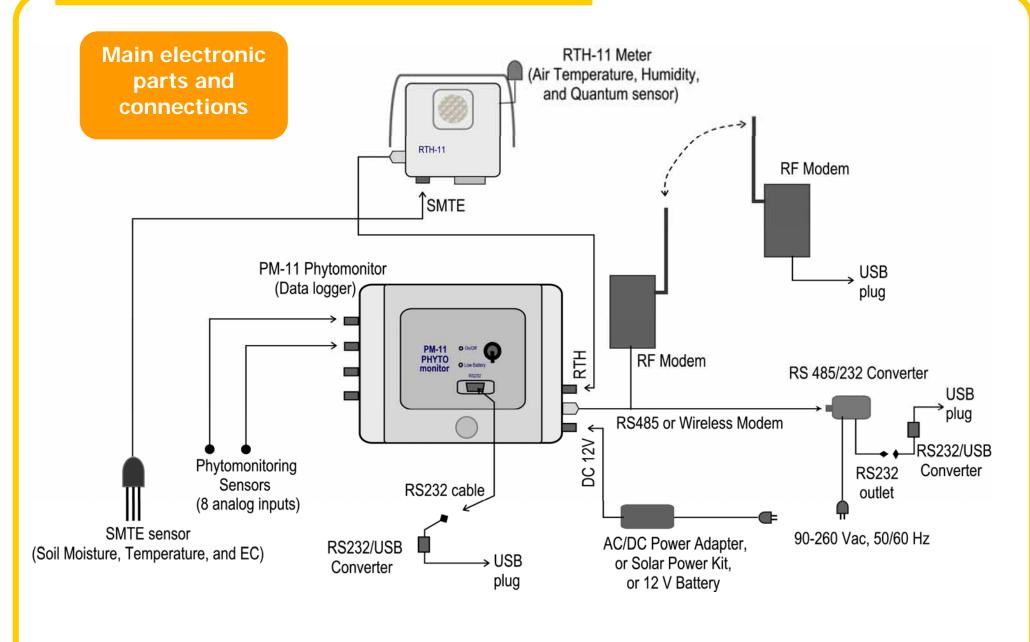
Hardware Quick Reference Guide

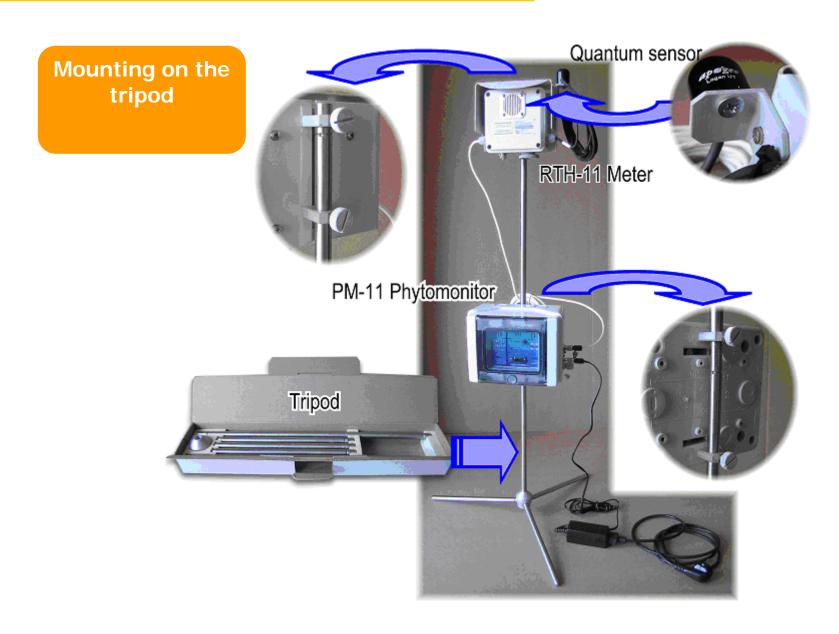


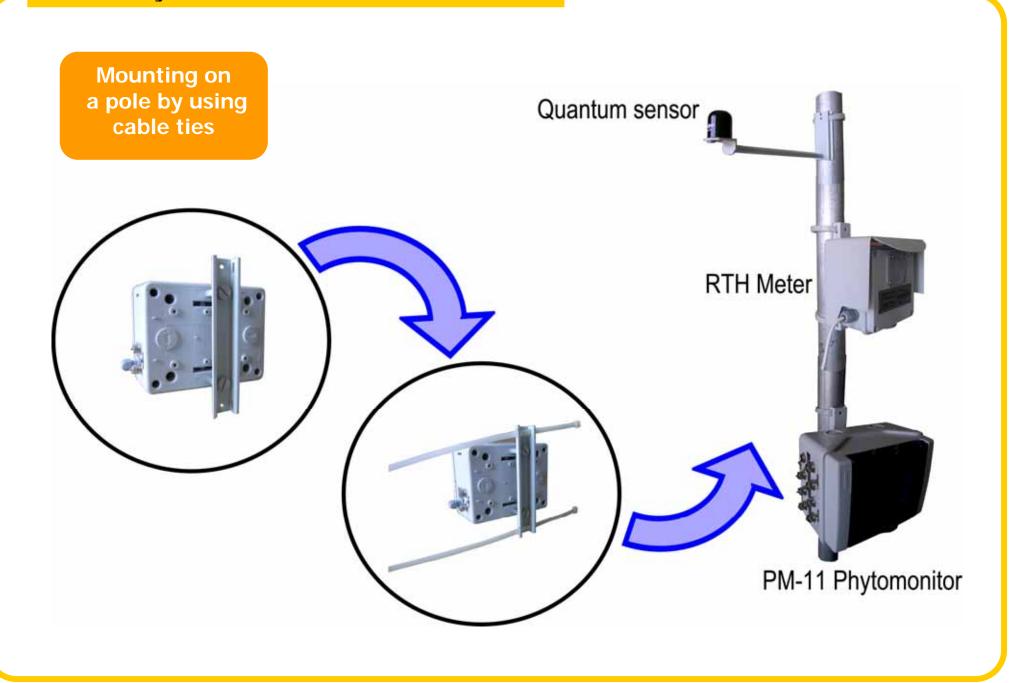
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Overview

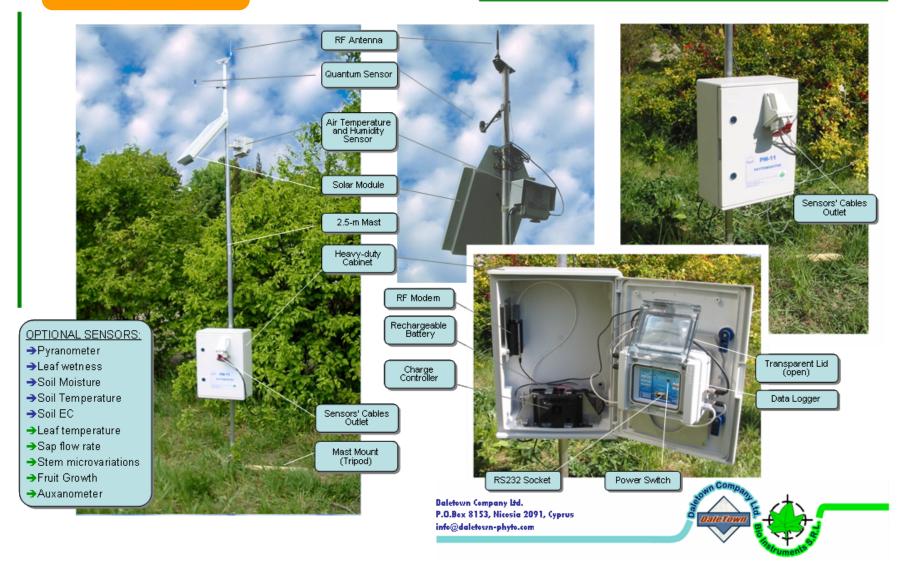




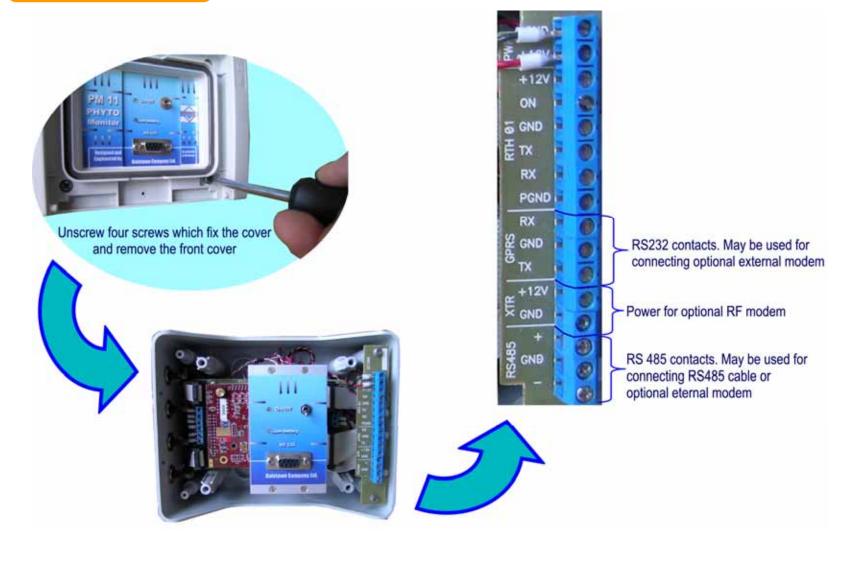




Open-field installation

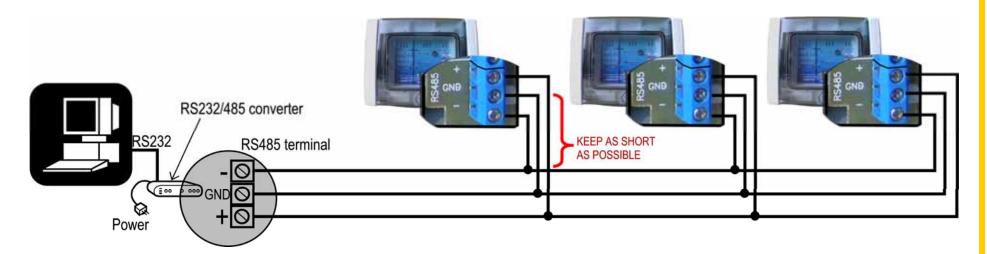


Modem connections



Wiring of RS485 connection

This is only basic guideline for wiring an RS485 network with several PM-11 Phytomonitors. More detailed information may be found in the appropriate Application note at http://www.maxim-ic.com/appnotes.cfm?appnote_number=763&CMP=WP-1.



A model network with three PM-11 units is shown in the picture above. The wires shall connect all like terminal contacts. The branch cables shall be as short as possible. The end of the main RS485 cable shall be terminated at one of the PM-11 units. Never leave the RS485 cable end unterminated. All devices shall be de-energized wile making connections.

Recommended types of cables for RS485 network:

- Twisted pair for '+' and '-' lines. A separate wire for 'GND' (ground)
- Shielded twisted pair. Use a shield for connecting 'GND'.
- A cable with two twisted pairs. Use one pair for connecting 'GND'.